AUTHOR INDEX

Aartrijk, J. Van 3057
Abad, J. A. 2101
Abadie, M. 1689
Abadzhyan, R. A. 2571
Abawi, G. S. 265, 1276, 4056
Abbasi, P. 4625
Abbasov, M. M. 1990
Abbott, L. K. 558, 1366, 1371
Abd-el-Aal, S. A. 1183
Abd El-Sattar, M. A. 2532, 2533, 2613, 2619, 2748
Abd-Elrazik, A. 1270
Abdalla, M. H. 4424
Abdel-al, H. R. 2430, 2588
Abdel-Fattah, H. M. 65
Abdel-Hafez, S. I. I. 909, 910
Abdel-Kader, M. I. A. 65
Abdel-Khalim, Kh. 1860
Abdel-Rahim, A. M. 4424
Abdel-Razik, A. A. 1316
Abdel-Salam, A. 1404
Abdelmoeti, M. 1431
Abernethy, R. H. 3091
Abiev, S. A. 1080
Abiko, K. 2936
Abishev, B. A. 1080
Abivardi, C. 4597
Abney, T. S. 478, 484
Abou-Heilah, A. N. 2078, 4851
AbouHaidar, M. G. 1852
Abracheva, P. 4729
Abramova, L. P. 537
Abrasheva, P. 2567
Abro, H. 3442
A'Brook, J. 841, 1425
Abu Kassim, A. B. 1304
Abu-Samah, N. 5031
Abul-Ata, A. E. 1194
Abul-Hajj, Y. J. 403
Abul-Hayja, Z. M. 2698
Acklin, W. 2318
Acosta, P. P. 4316
Acsai, J. 2292, 2309
Adachi, T. 2464
Adam, G. 2356
Adam, J. W. 2104
Adams, A. N. 1844, 2064, 3604, 3605
Adams, D. L. 4481
Adams, G. C., Jr. 568, 2314, 2849, 2850
Adams, M. J. 2079, 2080, 2109, 2110, 2111, 2115, 4981
Adams, P. B. 2231, 2855, 4114, 5066
Adamyan, K. M. 1618
Adamyants, S. A. 134
Addor, E. 528
Adegoroye, A. S. 2644
Adeniji, A. A. 4507
Adeniji, M. O. 2479
Adeoti, A. A. 2479, 3007
Adikane, H. V. 4611
Adikaram, N. K. B. 830, 831, 1750, 3654, 4569
Adisa, V. A. 205, 4305
Adiseshaiah, J. 1521
Adlerz, W. C. 2058
Adomako, D. 3474, 4867
Adrichem, J. C. J. Van 1314
Agakishiev, D. 1987
Agarwal, G. P. 38, 1436, 1517, 1519, 3148
Agarwal, P. D. 621
Agarwal, S. P. 2750, 4828
Agarwala, S. C. 4236
Agashe, S. N. 2876
Agha, Z. D. A. 2237
Agnello, A. V. 2062
Agnihothrudu, V. 29
Agnihotri, A. K. 1849
Agnihotri, J. P. 1385, 4680, 4823
Agnihotri, V. P. 2776, 3973, 4983
Agrawal, P. 3148
Aguilar, A. 3279
Aguilar, J. A. E. 2054, 3150
Aguirre, R. J. 2027
Agulhon, R. 2574
Ahlawat, Y. S. 4706
Ahlstrand, G. G. 2985
Ahmad, I. 1384, 2416
Ahmad, K. bin 3319
Ahmad, K. J. 3542
Ahmad, M. S. 1974
Ahmad, S. T. 5046
Ahmed, A. 991, 4312
Ahmed, A. I. 1251
Ahmed, H. U. 3524
Ahmed, M. K. 513
Ahmed, N. A. 3887
Ahmed, S. R. 5047
Aidy, I. R. 197, 198
Ainsworth, L. F. 5010, 5011, 5012
Ajayi, O. 1872, 4868
Ajri, D. S. 3193
Akai, J. 2445, 2703
Akazawa, J. 4434
Akenshina, G. V. 4418
Åkesson, I. 264
Akhavizadegan, M. Dj. 4503
Akıncı, C. 907
Akutsu, K. 1821
Akutsu, M. 1980
Al-Beldawi, A. S. 3650
Al-Hassan, K. K. 4846
Al-Issa, A. N. 382, 1641, 1642, 3232, 3233
Al-Meshhadani, S. A. 3811
Al-Mousawi, A. H. 1055, 1056, 3882
Al-Musa, A. 3235
Al-Zarari, A. J. 1043, 1078
Alabouvette, C. 1863
Alam, M. S. 3007
Alavi, A. 448
Alberghina, A. 4612
Albersheim, P. 3339, 4545
Albertini, L. 4810
Alblas, F. 4074
Albouy, J. 1068
Albregts, E. E. 280
Albrigo, L. G. 1513, 1967
Albuquerque, F. C. 2219
Albuquerque, M. M. de 2205
Alcock, S. 4453
Alcorn, J. 239
Alcorn, J. L. 1232, 2338, 4627
Alcorn, S. M. 66
Aldridge, D. C. 3413
Alexander, A. T. 3375
Alexander, C. 2836
Alexander, K. C. 4761
Alexander, S. A. 4477
Alexander, V. T. 1610, 1611, 4965
Alexandri, A. 2801
Alexandri, A. A. 3136
Alexandrova, N. M. 4764
Alfen, N. K. Van 536
Alfenas, A. C. 2653
Alfieri, S. A., Jr. 1077, 2889
Alhwat, Y. S. 1598
Ali, A. S. 1133
Ali, F. H. 3522
Ali, M. I. M. 3931
Ali, S. A. 2472
Ali, S. M. 259, 454
Ali, S. S. 2373
Allam, A. D. 1270
Allan, C. R. 1694
Allan, P. M. E. 2331
Allard, R. W. 641
Alldredge, J. R. 3928
Allen, C. R. 4515
Allen, D. J. 464, 2217, 3328, 3377
Allen, E. C. 3503
Allen, F. H. E. 4974
Allen, J. D. 4449
Allen, J. J. 2159
Allen, J. V. 3828
Allen, M. F. 1816
Allen, R. M. 102
Allen, R. N. 89
Allen, S. J. 257, 3935, 4403
Allen, T. C. 229, 3466, 4750
Allen, W. R. 1135, 1136
Allende, P. T. 3594
Allenza, P. 23, 24
Alliot, B. 1481, 1540
Alluri, K. 3007, 3008
Almeida, A. M. R. de 3343
Almeida, O. C. de 525
Aloj, B. 1061, 1062, 2690, 3784, 3883
Alper, M. 2011
Alscher-Herman, R. 4517
Alt, D. 4934
Alvarez, A. 4322
Alvarez A., M. 3163
Alvarez, A. M. 4125, 4957
Alvarez, C. E. 721
Alvarez, M. 3399
Alves, J. A. 317
Alves, M. L. B. 4564
Aly, M. H. 1121
Amaral, R. E. M. 1506, 3856
Amat, Z. 1323
Amein, A. M. 1316, 1716
Amelung, D. 979
Amerson, H. V. 2647, 3297
Ames de Icochea, T. 4029
Amin, K. S. 788
Aminev, P. I. 1670
Amma, P. A. 3370
Ammar, E. D. 1194
Ammirati, J. F. 1772
Amu Singh, S. 4297
Amundsen, T. 4505
Amundson, R. A. 4517
Ana Magán, F. J. F. de 4480
Anagnostakis, S. L. 399, 765
Anahosur, K. H. 4891
Ananthanarayanan, S. 429
Anashchenko, A. V. 2579, 2580
Ancora, G. 3986
Andersen, A. J. 561
Andersen, B. 640
Anderson, A. J. 535
Anderson, C. E. 1461
Anderson, J. A. 2000
Anderson, J. D. 2785
Anderson, L. E. 4517
Anderson, L. M. 4141
Anderson, M. G. 1330, 3237
Anderson, N. A. 536, 2173
Anderson, O. E. 3897, 5039
Anderson, R. C. 2827
Anderson, T. R. 1713, 1714, 2142
Anderson, W. C. 229
Anderson, W. K. 251
Ando, K. 2434
Andrade, O. 379
Andreev, L. N. 133
Andreoli, C. 4781
Andrews, D. S. 1668
Andrews, J. H. 3110, 4358
Aneja, K. R. 4715
Angell, S. 5013
Angell, S. M. 5008
Angelov, D. 3723
Anjana Singh 3051
Anjaneyulu, A. 190, 1931, 1932, 1933, 1934, 4684
Annapurna, Y. 817, 1009, 2804, 2993
Anno-Nyako, F. C. 3377
Anthony, V. M. 1118, 1120, 3580
Antibus, R. K. 1811
Antoniw, J. F. 3223
Antonova, O. N. 4227
Antonova, T. S. 2069, 4742
Anwar, H. 2272
Aota, T. 3690
Aponyi, L. 1315
Apostolides, Z. 3591
Aragaki, M. 1586, 2312, 3147, 3545
Araki, F. 1503
Araki, T. 579, 588, 2524, 3787
Arase, S. 1940, 2457, 3026
Araujo, J. B. M. 1721
Araújo, J. C. A. de 1130
Arceneaux, J. E. L. 17
Archer, D. B. 2077, 2520
Archer, S. A. 3479
Arciero, M. 4458
Arı, M. 1142
Arias, J. A. 4282, 4283
Arigoni, D. 2318
Arimoto, Y. 2491, 2701, 3047
Arlt, K. 3738
Armato, B. 3069
Arnold, J. T. 2556
Arnoldi, A. 2288
Arny, D. C. 3849
Arora, P. P. 3714
Arpin, N. 2840
Arregui, J. M. 4303
Arsenault, W. J. 2629
Arthur, A. E. 4323
Artigues, M. 4618
Arulpragasam, P. V. 1200
Arveby, A. S. 41
Arya, A. 1539, 3065, 3067, 3152
Arya, H. C. 4587
Asada, Y. 2258
Asaga, K. 2465, 2466, 2467, 2470, 4290
Ashby, J. W. 605, 1855
Asher, M. J. C. 982, 1461, 1466, 2343, 2423, 4880
Ashkan, M. 3109, 3125
Ashton, M. L. 1396
Asiedu, S. K. 3397
Asina, S. 1224
Asjes, C. J. 1525, 3057, 3072
Asmus, G. 5035
Assadi, P. 3109
Assche, C. Van 2201
Assis, L. A. G. 4564
Asthana, A. 1358, 1946
Astier-Manifacier, S. 4631
Ata, A. E. A. 2217
Atabekov, I. G. 3535, 4754
Atabekov, J. G. 600, 601, 3462, 4208, 4764
Atchutharamarao, M. 3968
Athow, K. L. 478, 2210, 5036
Atienza, C. S. 3964, 3966
Atila, A. 4388
Atilano, R. A. 2012, 2019, 3074, 4918, 4925
Atiri, G. 3683
Atiri, G. I. 3730
Atkey, P. T. 2180
Atkinson, T. G. 2435, 4879
Attere, A. F. 3520
Attia, Y. G. 778, 779
Aubert, B. 664, 722, 3039, 3094
Aulakh, K. S. 3313, 4672
Auld, D. L. 452
Aurangabadkar, J. H. 818
Auriau, P. 613, 4665
Auriol, P. 4268, 4269, 4270
Aust, H.-J. 2410, 2427, 4667
Austin, D. J. 3728
Austin, R. B. 2759
Autonell, C. R. 3939
Autrique, A. 735
Aveyard, C. S. 4970
Avezdzhanov, R. M. 4645
Avezdzhanova, G. P. 4645
Avgelis, A. 3318, 4574
Avita, S. R. 1305
Awad, M. 4518
Awashty, S. 1436
Ayanru, D. K. G. 834
Ayaydın, F. 4401
Aycock, M. K., Jr. 4436
Ayers, J. E. 167, 1016, 1017, 1018
Ayers, W. A. 2855, 4114
Ayla, C. 1268
Aylor, D. E. 2426, 3649, 4430
Ayotade, K. A. 3007
Ayrault, J. P. 1426
Ayres, P. G. 2418, 2421
Ayyavoo, R. 2066
Azar de Godoy, E. 3130

Azcón, R. 893
Baard, S. W. 1827, 5041
Babaev, D. 1987
Babaev, F. A. 1990
Babayants, L. T. 2394
Babchenko, I. V. 4494
Babiker, A. G. T. 513
Babini, A. R. 939
Babu, K. J. 1044
Babu, M. 187
Bachmann, O. 326
Bachvarova, R. 2506
Backman, P. A. 810
Bacon, C. W. 1477
Badawy, M. F. 2578, 2588
Badenoch, S. 969, 1114, 1116
Badino, M. 1742
Badran, O. A. 778, 779
Baghadani, A. M. 4246, 4424
Bagyaraj, D. J. 57, 563, 2306, 4156
Bahadur, P. 130
Bai, C. 2328
Baicu, T. 27
Baier, A. C. 1879
Bailey, J. A. 456
Bailey, J. E. 1449
Bailey, T. B. 477
Baimataeva, B. K. 1080
Bain, R. A. 2616
Bainbridge, A. 2426, 2977, 3493, 3819
Bakaeva, E. V. 2727
Bakardjieva, N. 2506
Baker, A. S. 2187, 2190
Baker, E. A. 1796
Baker, K. F. 536, 3063
Baker, K. K. 242, 4328
Baker, L. R. 2200
Baker, R. 386, 1824
Baker, R. A. 1516
Bakr, A. 2113
Bakshi, S. 1698
Bala, S. 4206
Balakrishna, A. N. 563
Balakrishnan, S. 2029, 3930
Balakumar, M. S. 3177
Balal, M. S. 197, 198
Balaraman, K. 673, 1969
Balasubramanian, K. A. 651
Balasubramanian, P. 3363, 3369
Balasubramanian, R. 1820, 1992
Balder, H. 2983
Balder, H 3814
Baldi, G. 3028
Balkhande, L. D. 2958
Ball, S. L. 3002, 3003
Balla, I. 1749
Ballard, R. G. 1245
Ballester, J. F. 4302, 4303
Ballinger, W. E. 4372
Ballington, J. R. 896
Ballio, A. 4693, 4694
Báló, E. 1577
Balogh, É. M. 2034
Bambridge, J. M. 514, 5012, 5019, 5054
Ban, Y. S. 1205
Bandoni, R. J. 347
Bandopadhyay, A. K. 217
Bandurko, I. A. 4716
Bandyopadhyay, R. 908
Banerjee, D. 860, 1784
Bång, U. 4110
Banks, D. J. 4067
Bannerot, H. 730
Bannon, E. 1179
Bansal, R. D. 519, 2635
Banse H., J. 3940
Banttari, E. E. 352, 1841
Banville, G.-J. 3204
Banyangabose, F. 1760
Banzatto, D. A. 490
Bar-Joseph, M. 89, 203, 602, 3455, 4301, 4630
Bar-Lev, S. S. 4008
Baraka, M. A. 2748
Barakat, F. M. 1251
Barash, I. 207, 3444
Barba, M. 4369, 4727
Barbara, D. J. 1844, 2064, 3467, 3578, 3579, 3604
Barber, C. E. 4126
Barea, J. M. 893
Barış, M. 1268
Barkai-Golan, R. 2642, 4443, 4992
Barker, H. 935, 946, 1163, 1853, 3227
Barlass, M. 1134
Barman, B. 2504
Barmore, C. R. 4695
Barna, B. 1212
Barnes, A. 4044
Barnes, D. K. 3899, 3900
Barnes, G. L. 257
Barnes, M. F. 793
Barnett, O. W. 1085
Barr, D. J. S. 2331, 4620, 4930
Barran, L. R. 2860
Barrat, J. G. 3104
Barrett, D. K. 2254
Barrett, J. A. 1454, 3411
Barritt, B. H. 3565
Barros, B. C. 3826
Barsukova, O. N. 1563
Bartaria, A. M. 3716, 3933
Bartnicki-Garcia, S. 3414
Barton, R. J. 1995
Bartoš, P. 136, 1438, 1884
Barua, G. C. S. 1201, 3975, 4021
Barua, K. C. 3975, 4021
Barz, W. 2853, 4514
Basagoitia M., C. R. 3872, 3874
Basahy, A. T. 4851
Basavarajaiah, A. B. 2169
Basham, H. G. 3064
Bashan, Y. 867, 963, 1322, 2246, 2266, 3247, 4573
Bashi, E. 733, 4419, 4420
Basile, R. 1883, 1887
Basioni, A. 993
Basky, Zs. 2693, 3987
Bass, P. 4730
Bassi, A., Jr. 1403
Basu Chaudhary, K. C. 4078
Basu, M. 860, 1784
Batalova, T. S. 966
Bateman, D. F. 21, 540
Bateman, G. L. 1894
Batista, M. de F. 343
Batista, U. G. 467
Batra, L. R. 526, 3133
Batson, W. E. 1643
Batta, S. K. 376
Batyrova, G. Sh. 2877
Baudoin, A. B. A. M. 1975
Baumann, G. 4370
Bawden, A. D. 4464
Baxter, J. W. 2517
Baxter, L. W., Jr. 682
Bayer, M. H. 854
Bayles, R. A. 1877, 1892
Bayon, F. 1426
Bazzalo, M. E. 1221
Bazzano, V. 725
Bazzi, C. 383, 1623, 2621, 3956
Beagle-Ristaino, J. E. 4064, 4544
Beakes, G. W. 2707
Beale, M. A. 3286
Beard, T. H. 4481
Beardmore, J. 4873
Beards, G. 1848
Beaudoin, X. 2502
Beaujard, F. 1998, 3440
Beaver, R. G. 283
Becciu, M. 329
Bechet, M. 3602, 3632
Becker-Raterink, S. 2496
Beckman, C. H. 676
Beckman, P. M. 2999
Bedendo, I. P. 1953, 3029, 3856
Bedker, P. J. 773
Bedlan, G. 2363, 3387, 3896, 3998
Beer, S. V. 21
Beever, R. E. 870, 3759
Beg, M. U. 3658
Begtrup, J. 3793, 3806, 3810
Behar, D. S. 2635
Behera, B. 3858
Behera, N. 194
Behncken, G. M. 89
Behr, L. 3534
Beicht, W. 4805
Beiderbeck, R. 1345, 3751
Beier, R. C. 743
Beijersbergen, J. C. M. 3057
Beilby, J. P. 47, 4607
Beilharz, V. C. 1826
Bekele, E. 4888
Bekhter, A. G. 2069
Belardini, M. 3664
Belden, E. L. 4529
Beleva, L. 1215
Beliaeva, A. V. 4494
Bell, A. C. 1166, 2097
Bell, D. K. 2755, 2991
Bell, R. M. 2526, 2527
Bellardi, M. G. 3540
Belli, G. 1591
Bel'skaya, S. I. 1187
Beltrá, R. 857
Belzhelarskaya, S. N. 4208
Ben-David, B. 2672
Ben-Joseph, Y. 733
Ben-Shalom, J. 203
Bendelow, V. M. 1460
Benedikz, P. W. 4231
Beniwal, S. P. S. 3714, 3717
Benken, A. A. 954
Bennet, H. I. 477
Bennett, F. G. A. 140, 4251
Bennett, L. 2187
Benni, A. 4612
Benson, D. M. 578, 1072, 3303, 3666
Benveniste, P. 2994
Benvenuto, E. 3986
Beraha, L. 3937
Bérard, L. S. 3114
Berbee, F. M. 3110
Berbee, J. G. 1226
Bérces, S. 4409
Berch, S. M. 1367, 1373, 2829, 3776
Beresford, R. M. 1600, 1890, 4489
Berg, C. C. 3087, 3893
Berg, C. W. 4838
Bergdahl, D. R. 4471
Berger, P. H. 3004, 4860
Berger, R. D. 532, 1977
Bergman, B. H. H. 3057
Bergstrom, G. C. 446
Berjak, P. 2438
Berkenkamp, W. B. 74
Bernier, C. C. 1282, 2207, 4535
Bernier, L. 4777
Bernillon, J. 4168
Berry, C. R. 4139
Berry, D. R. 2773
Bertaccini, A. 939, 4034, 4723
Bertheau, Y. 2304
Berton, O. 1291
Bertrand, P. F. 4779
Bertsch, M. 4710
Berville, A. 4673
Besri, M. 1649, 2636
Bessmel'tseva, L. M. 134
Besson, L. 4333
Best, G. R. 3503
Bester, S. 4944
Bethlenfalvay, G. J. 4151, 4153
Bettiol, E. M. 4221
Betto, E. 2288
Betzold, J. A. 3070
Beuckeleer, M. de 2140
Beute, M. K. 1298, 4066
Beuther, E. 2696, 4178
Bevan, R. J. 3256
Beversdorf, W. D. 470, 1281, 1706, 2712
Bezerra, J. L. 976, 1154
Bezukhova, Z. P. 2877
Bhadraiah, B. 1919
Bhadur, P. 4241
Bhagchandani, P. M. 4084
Bhagwan, V. K. 1733
Bhagyanarayana, G. 2897
Bhale, M. S. 4961
Bhalerao, U. T. 2804
Bharathan, N. 3353
Bhardwaj, S. V. 1729
Bhargava, K. S. 37
Bhargava, S. N. 1005, 1597, 2065, 3919, 4181
Bhaskar, R. B. 4956
Bhaskaran, R. 3194
Bhat, S. S. 1011
Bhatnagar, D. K. 790
Bhatnagar, L. G. 4802
Bhatt, B. N. 4892
Bhatt, J. C. 1033
Bhattacharya, G. 621
Bhattacharya, P. K. 827
Bhattacharyya, A. 4600
Bhattacharyya, B. 2261
Bhatti, M. H. R. 2518, 2519
Bhawal, B. M. 2857
Bhikane, N. S. 1308
Bhojwani, S. S. 823
Bhonde, S. R. 4084
Bhowmick, B. N. 1359, 1361
Bhowmik, T. P. 4072
Bhujbal, B. G. 298
Bi, Z. S. 3252
Bialoskorski Neto, S. 4224
Bielenin, A. 713, 1102
Bielka, F. 1008
Bierhuizen, M. F. A. 3804
Biermann, C. J. 2162
Biggs, A. R. 2658
Bijker, W. 4079
Billett, W. 3508
Billing, E. 3552
Binning, L. K. 1701
Binns, A. N. 4435
Bird, C. R. 879
Bird, G. W. 4386
Birnberg, P. R. 3746
Bisessar, S. 351
Bishop, C. D. 2943
Bishop, J. C. 3217
Bisht, N. S. 393, 2175
Bisht, S. 4513
Bisht, V. S. 3702
Bisiach, M. 301, 311, 1664
Bissett, J. 74, 2510, 2885
Biswas, S. 3033
Bitka, R. 4007
Bittner, H. 1169, 2091
Bjarko, M. E. 4267
Bjarnason, M. 1910, 2992
Black, L. L. 4439
Black, L. M. 854
Black, R. 1782
Bladocha, M. 2994
Blaich, R. 326
Blaise, T. 2822
Blake, P. S. 267, 268, 3728
Blake, V. S. A. 3604
Blakeman, J. P. 536
Blakeny, E. 862
Blaker, N. S. 3077
Blancard, D. 2638
Blanchard, R. O. 764
Blanchette, B. L. 518
Blanchette, R. A. 773, 1655, 2655
Blanco, M. H. 1490
Blanz, P. 347
Blaschke, H. 1236
Błaszczak, W. 4510
Blazquez, C. H. 3686
Blom-Barnhoorn, G. 3057
Blondel-Triboi, A. M. 3052
Błotnicka, K. 2718
Blum, F. D. 403
Blum, U. 2522
Bobeş, I. 2801
Bobkova, A. F. 3457, 4754
Boccardo, G. 89
Boccelli, R. 2280
Bochow, H. 3326, 4374
Bock, K. R. 89, 836, 2351
Bockelman, H. E. 4267
Bocklet, M. F. 3130
Bockus, W. W. 3492
Boddy, L. 2165, 2851, 4466, 4994

Boer, S. H. de 1342
Boerema, G. H. 4699
Boesewinkel, H. J. 925, 3146, 4474, 4862
Bogle, A. L. 3285
Bohl, W. H. 3091
Bohnen, K. 1476
Boïkov, A. 4698
Boisson, C. 2337
Bol, J. F. 2216, 2911, 3804, 4074
Bolay, A. 715, 2539, 2568
Bolkan, H. A. 343, 1130, 5017
Bolland, C. J. 5008, 5018, 5020, 5027, 5048, 5052
Bollen, C. J. 3843
Boller, E. 291
Bollich, C. N. 3854
Bolton, A. T. 1075
Bompeix, G. 2313, 3115, 3423
Bonatti, P. M. 383
Bonazzola, R. 1977
Bond, E. J. 1349
Bonde, M. R. 1489
Bondoux, P. 1998, 3434
Bonfante-Fasolo, P. 895, 2811
Boniface, J. C. 305, 2574
Bonilla G., J. C. 3870, 3871, 3875
Bonini, R. 1048
Bonman, J. M. 2995, 4220
Bonnet, A. 3315
Boom, J. Van 2918
Boom, T. Van der 542
Boone, D. M. 2045
Boos, G. V. 4498, 4786
Boosalis, M. G. 1816
Booth, C. 2263
Booth, R. H. 3203
Boothroyd, C. W. 536, 4678
Bopaiah, B. M. 2589
Bora, T. 907
Bordia, S. 1629
Borecki, Z. 704
Borges, M. de L. 4771
Borgo, M. 329, 2570, 3598
Borodanenko, A. I. 2967, 2971
Borodanenko, N. K. 2967, 2971
Borodin, G. I. 214
Borovinova, M. 3113, 3561
Borowczyk, K. 4510
Borysova, O. V. 3462
Bos, L. 89, 92, 2347, 2352, 4533
Bosacker, P. L. 1437
Bosch, L. 4427
Bose, A. 1144
Bose, B. 1483
Bostock, R. 1206
Bostock, R. M. 3946
Bottalico, A. 4613, 4693, 4694
Böttcher, I. 3534
Bottino, P. J. 1070
Botton, B. 2818, 4165
Boubals, D. 4387
Bouckaert-Urban, A.-M. 861, 1339, 1340
Boudart, G. 1689
Boudier, B. 4018
Boué, H. 2271
Boughton, T. J. 4847
Bouhot, D. 2322
Boukema, I. W. 2152, 3992
Boulter, D. 604
Bounaga, D. 2767
Bounaga, N. 2767
Bourguignon, B. 2840
Bourne, W. F. 2121
Bousfield, I. J. 2270
Bouzar, H. 3270
Bové, C. 3039
Bové, J. M. 664, 3038, 3039, 3807, 4641
Bowden, R. L. 176, 249, 4286
Bower, L. A. 4164
Bowes, S. A. 1814
Bowman, T. 365
Boy, N. 794
Boyadzhiev, Kh. 3723
Boyd, W. S. 1889
Boyer, E. P. 896
Boyer, K. A. 1675
Boyle, P. 1829
Boyle, T. H. 2020
Boyne, J. V. 4935
Bozzano, G. 1060
Braber, J. M. 2600
Bracker, C. E. 4282, 4283
Bradford, B. 387, 2637
Bradshaw, A. D. 2527
Brady, B. L. 2895
Braithwaite, M. 1412
Brakke, M. K. 124, 2952
Brandes, W. 705
Braniewski, S. 4005, 4006, 4007
Brasier, C. M. 3414, 4456
Brathwaite, C. W. D. 792, 1775
Braun, A. C. 854
Braun, U. 73, 79, 80, 2339, 2340
Bräutigam, S. 3327
Bravo O., N. 2947
Brazda, G. 362
Brechbuhler, C. 302
Breckenridge, C. 1038
Brelie, D. von der 2059, 2564, 2565
Bremer, H. 709
Brennan, E. 2125
Bressan, R. A. 2366
Bretag, T. 3713
Breton, A. 263
Brettell, R. I. S. 2996
Bretzel, P. von 434, 1679
Breukelen, E. W. M. Van 3332
Brewer, J. G. 1318
Bricker, J. L. 875
Briggs, S. P. 3228
Brignani Neto, F. 1034, 1035, 1277, 1278, 1279, 1506
Brillová, D. 2182
Brisbane, P. G. 3747
Britton, K. O. 1574
Brlansky, R. H. 123, 1341, 1570, 3417
Broadhead, D. M. 3219
Brocklehurst, P. A. 4857
Brokenshire, T. 3582
Bromfield, K. R. 1489, 4111, 4542, 4835
Brookfield, M. 3552
Brouwer, H. M. 4057
Brouwer, J. B. 4275
Brouwers, G. 1339
Browder, L. E. 3484
Brown, A. E. 472, 830, 831, 900, 1750, 1858, 1873, 3143, 3654, 3728, 4569
Brown, B. I. 1129
Brown, C. M. 120, 121
Brown, E. A. 1765
Brown, G. E. 4695
Brown, J. F. 2259, 3935, 4403
Brown, J. S. 4875
Brown, M. E. 632
Brown, M. F. 554, 4854
Brown, M. R. W. 2272
Brown, M. S. 4151
Brownell, K. H. 2171
Browning, J. A. 3410
Broyakovskaya, K. N. 436
Bruchet, G. 2837
Bruck, R. I. 3303, 4476
Bruckner, F. 4260
Bruehl, G. W. 144, 615, 633, 2976
Bruening, G. 99
Brüggeman, W. 3459
Bruhn, J. A. 1615, 1616
Bruin, G. C. A. 2602, 4620
Brun, J.-M. 2638
Brun, P. 3052
Brune, W. 718
Brunetta, D. 1430
Brunt, A. A. 1996, 2179, 2180
Bruton, B. D. 3086
Bryan, J. E. 3203
Bryan, W. C. 2814
Bryant, G. R. 114, 477, 4063
Buchananan, D. W. 2000
Büchel, K. H. 2277
Buchenauer, H. 1353
Buchholz, K. 551
Buchner, V. 2610
Buck, K. W. 4214
Buczacki, S. T. 2892, 3680, 4039, 4162, 4620, 5013
Budanova, V. I. 2781
Budge, S. P. 2006
Buelow, G. P. 3999
Bugaret, Y. 3601
Bugbee, W. M. 2184
Buglova, T. T. 4166
Buijtenen, J. P. Van 3249
Bujarski, J. J. 13
Bukai, J. 1178
Buldeo, A. N. 818
Bulgova, T. T. 3443
Bulit, J. 303, 327, 4732
Bullock, R. M. 3722
Bullock, S. 1835
Bulnheim, U. 350
Bulyntsev, S. V. 3330
Bumbieris, M. 1558
Bunea, A. 1111
Bünemann, G. 709
Bunt, M. H. 3057
Burchill, R. T. 4832, 5054, 5055
Burckhardt, E. 4155
Burdekin, D. A. 1651, 4467
Burdon, J. J. 536, 4274, 4275
Burdon, R. D. 5004
Burdyukova, L. I. 75, 3447
Bureau of Sugar Experiment Stations 3962, 3971
Burger, D. W. 2494
Burgess, L. W. 1831
Burgyán, J. 3222, 4769
Burk, L. G. 750
Burke, D. W. 4520
Burleigh, J. R. 418
Burloi, N. 1111
Burnett, H. C. 2492
Burnett, P. A. 970, 4205
Burr, T. J. 700, 2036, 3166
Burrell, M. M. 2618
Burrell, R. E. 2283
Burruano, S. 3923
Burt, J. R. 786
Burth, U. 362, 1103
Burton, C. L. 4390, 4960
Bus, C. B. 2600
Busch, L. V. 968
Busch, R. H. 2963
Busey, P. 4925
Bushkova, L. N. 955, 1184
Bushnell, W. R. 1437, 2258
Butare, I. 1760
Butcher, D. N. 440, 3679
Butkiewicz, H. 2596
Butler, E. E. 568, 2849, 2850
Butler, L. 4458
Butt, D. J. 2544, 3557, 3560, 3566
Büttner, U. 367
Buwalda, J. G. 560, 562, 2298
Buzzell, R. I. 1713, 1714
Byers, B. R. 17
Byrt, P. N. 60
Byther, R. S. 5006, 5007
Caballero, O. 4413
Cabauatan, P. Q. 3518, 3519
Cabezon, C. S. de 3050
Cabrera, N. 2964
Caciagli, P. 1482, 4826
Cadavid, L. F. 4155
Caddel, J. L. 257
Caeseele, L. Van 2189
Cahaner, A. 3247
Cahill, D. 2945, 3265
Cai, F. 2025, 3548
Calavan, E. C. 3808, 3809
Calderoni, A. V. 2100
Caldwell, R. W. 1488, 1914
Calilung, V. C. J. 4058
Call, J. E. 2969, 2970
Calle, H. 1421
Callihan, R. H. 4749
Callow, J. A. 1964
Callu, D. 2271
Calvert, O. H. 243
Calzolari, A. 493, 2621, 3956
Cambra, M. 4302
Cambrony, D. 2364
Cameron, A. M. 2104, 3634
Cameron, H. R. 3550
Campacci, C. A. 492, 1046
Campagnac, N. 211
Campana, R. J. 2162, 2652
Campbell, C. L. 2024
Campbell, N. A. 4847
Campbell, R. 1896
Campbell, R. N. 389, 2900
Campbell, W. D. 4620
Campêlo, A. M. F. L. 112
Campiglia, H. G. 3040
Camporota, P. 1864, 4617
Campos, V. P. 1711
Canaday, C. H. 582
Cañet, F. M. 1026
Canfield, J. E. 3999
Cannon, P. F. 87
Canova, A. 3095, 3096, 3098
Cantisani, A. 4639
Cantrell, M. A. 2622
Cao, L. 4685
Cao, X. 2542
Capparelli, R. 4629
Cappelli, C. 3172
Cappellini, R. A. 3131, 3577
Capponi, R. 4207
Carbone, G. 3597
Carbone, W. 3660
Carder, J. H. 3607
Cardon, J. A. 3562
Cardoso, R. M. G. 1065
Carew, G. C. 4775
Carey, W. A. 1658
Carlebach, R. 2096
Carling, D. E. 554
Carlson, I. T. 2530
Carlson, R. R. 18
Carlson, R. W. 2214, 4546
Carnegie, S. F. 359, 2104, 3634
Carnero Hernández, J. 2052
Carpenter, H. E. 2231
Carr, A. J. H. 841
Carr, R. J. 2709
Carreño I., I. 3111
Carreres, R. 193
Carroll, G. 3287
Carroll, G. C. 534
Carroll, R. B. 1712
Carroll, T. W. 123
Carta, C. 4772
Carter, M. 2900
Carter, M. V. 4863
Cartia, G. 2015, 2242, 2645, 3688, 3864
Caruso, F. L. 4791, 4977
Carvalho, J. L. R. 490
Carver, T. L. W. 160, 841, 1467, 1903, 2985
Casagrande, L. I. T. 3435, 3773
Casanova, R. 262
Casetta, A. 4826
Casper, D. H. 1881
Casper, R. 2595
Cassell, D. 987
Cassells, A. C. 2594
Cassin, P. J. 3052
Castaño J., M. 3331
Castaño Jaramillo, M. 4525
Castellano, M. 4697
Castellano, M. A. 2513
Castledine, P. 2016
Castresana, M. C. 1705
Castro, J. L. 3826
Castro, M. 747
Castro, P. R. C. 4539
Catara, A. 1514
Catherall, P. L. 841, 1549
Cathey, H. M. 1414, 1535, 1653
Caudal, Y. 3242
Caudwell, A. 3599
Caunter, I. G. 2253
Cauquil, J. 210
Cavelier, M. 4253
Cayley, G. R. 2102, 2116, 2615
Cebrat, J. 2446
Cella, L. 329
Cellerino, G. P. 3250

Centro Internacional de Agricultura Tropical 4054
Cepoiu, N. 1111
Ceponis, M. J. 2044, 3131, 3577
Cerato, C. 459
Cerkauskas, R. F. 489, 4543, 5035
Cervone, F. 384, 3213
Cha, J. S. 1032
Cha, K. H. 3861
Chaban, V. S. 985, 3610
Chadha, K. L. 3145
Chaigneau, M. 3757
Chakrabarti, N. K. 2472
Chakrabarti, S. N. 2487
Chakraborty, S. 583
Chakravarti, B. P. 2581
Chakravarty, D. K. 1751, 4082
Chakravarty, P. 3253, 4830
Chalandon, A. 308
Chalkov, I. 2567
Chaluat, M. M. de 3186
Chalutz, E. 4910
Chamber Pérez, M. A. 480
Chamberlain, J. A. 1549
Chamberlain, K. 440, 4042
Chambers, D. A. 3607
Chamel, A. 3769
Chamel, A. R. 876
Chamkrachang, W. 3515
Chand, J. N. 3001, 3037, 3527
Chand, K. 3486
Chandler, W. A. 4364
Chandra, A. 1830
Chandra, H. 1358, 1731, 1946, 3427, 4821
Chandrashekar, M. 3273
Chandrasrikul, A. 3515
Chaney, W. R. 892, 2307
Chang, C. C. 2212
Chang, C. H. 2625
Chang, C. J. 1410
Chang, C. S. 1635
Chang, C. W. 2249
Chang, L. 2542
Chang, S. C. 1500
Chang, Y. 3862
Chang, Y. H. 536
Chapeville, F. 4427
Chapola, G. M. 3979
Charaya, M. U. 1547
Chark, K. S. 4499
Charlot, C. 4500
Charudattan, R. 528
Charya, M. A. S. 1360, 1734, 2153, 2319, 4077
Chase, A. R. 218, 220, 225, 226, 346, 2002, 4320
Chastagner, G. A. 5006, 5007
Chatrath, M. S. 125
Chatterjee, A. K. 1789
Chatterjee, C. 4236
Chatterjee, G. C. 860, 1784
Chattopadhyay, N. C. 2127
Chaube, H. S. 3717
Chaudhary, B. P. 1510
Chaudhary, G. G. 1730
Chaudhary, K. C. B. 504, 1599, 1739, 4917
Chaudhri, M. A. 1415
Chaudhuri, J. 4082
Chaudhuri, S. A. 1768
Chaudhuri, T. 2290
Chauhan, J. S. 1735
Chauhan, K. S. 3144
Chauhan, L. S. 1553
Chauhan, R. K. S. 1698, 1922, 2863
Chauhan, S. K. 3818
Chauhan, V. B. 1697
Chaumont, J. P. 881
Chaurasia, S. N. P. 2883
Chavdarov, I. 2506
Chaverri, J. H. 3873
Chaves, G. M. 69, 467, 508
Cheah, L. H. 2191
Cheema, S. S. 204, 667, 2490
Chef, D. G. 4865
Chekunova, L. N. 169
Chełkowski, J. 4653
Chen, C. H. 1635
Chen, C. N. 1925
Chen, F. Y. 1635
Chen, G. 1394, 1662
Chen, H. K. 2385
Chen, J. 2361
Chen, K.-Y. 101
Chen, L. C. 1284, 4291
Chen, L. Y. 4939
Chen, M. H. M. 3444
Chen, M. J. 1064, 2154
Chen, Q. Z. 4903
Chen, S. 3921
Chen, S. C. 3154
Chen, S.-F. 378
Chen, S. L. 4666
Chen, T. A. 1410
Chen, T.-M. 378
Chen, W. 2070, 4406
Chen, X. Z. 122
Chen, Z. C. 4353
Chen, Z. Y. 122, 288, 444, 1409, 3277, 3834, 4035, 4036
Cheng, A. H. 111
Cheng, Y. H. 110
Chenulu, V. V. 4706
Chereguino V., R. S. 3876
Chessin, M. 797, 3741
Chester, I. B. 3084
Chet, I. 64, 905, 1822, 1829, 3781, 4184, 4315, 4619, 4920
Chettanachit, D. 188, 1935
Chew-Chin, N. 3515
Chia, T. C. 1635
Chiang, J. K. 1631, 1632
Chiarappa, L. 2941
Chiba, S. 975, 2463
Chicheva, T. B. 2986
Chien, C. C. 202, 3034, 4686
Chien, C. Y. 2817
Chien, L. 3277
Chiengkul, A. 3515
Chigrin, V. V. 134
Chih, C. P. 1145
Chiko, A. W. 2951, 3539
Childs, J. F. L. 1968
Chiltern, M. D. 854
Chilvers, G. A. 536
Chin, K. M. 1943, 1945
Chirkov, S. N. 3457, 3458, 3535
Chiu, M. T. 1025
Chiu, R. J. 1926
Chiu, W. F. 536
Chmulev, V. M. 4238
Cho, B. H. 1032
Cho, E. K. 1285, 2720, 3934
Cho, J. J. 3722
Cho, W. D. 1123
Chobanova, Ya. 3651
Chod, J. 355
Chohan, J. S. 204, 667, 4799, 4814
Choi, H. J. 2321
Choi, J. S. 4030
Choi, S. H. 3934
Choiseul, O. 1179
Choisnel, E. 4400
Cholil, A. 1949
Chong, J. 1907, 1908, 2316
Chopin, S. 1666
Chopra, V. L. 1331, 2966
Chordas, A. 4307
Chou, C. K. S. 5004
Chou, L. Y. 523
Chou, T. G. 883
Choudhary, B. K. 1361
Choudhuri, M. A. 1021
Choudhury, I. 1784
Choudhury, M. M. 2205, 4671
Chowdhry, P. N. 912
Chowdhury, A. K. 2740
Chowdhury, S. R. 2740
Christ, B. J. 2439
Christen, A. A. 2026, 2218
Christensen, C. M. 2376
Christensen, M. 2294
Christensen, M. J. 4929
Christiansen, E. 4780
Christiansen, J. 5038
Christiansen, M. N. 1520
Christias, C. 2320
Christie, P. 4146, 4330
Christie, R. G. 3209
Christie, S. R. 3887
Christy, E. J. 1364
Chu, C. 1639
Chu, C. B. 4688
Chu-Chou, M. 549
Chu, H. C. 2744
Chu, J. 2482
Chu, P. W. G. 2531, 3805
Chu, S. L. 1867
Chu, T.-L. 374
Chuang, T. Y. 4379, 4380
Chumakov, A. E. 952, 1180, 3481
Chun, W. W. C. 4125
Chung, B. K. 146, 3855
Chung, H. S. 3855
Chung, Y. R. 1150
Churakov, B. P. 3296
Church, B. M. 2392
Church, R. M. 4354, 4355, 4356
Churikova, E. K. 430
Ciampolini, F. 4743
Ciccarese, F. 385
Ciccarone, A. 3041
Cicco, V. de 4692
Ciegler, A. 416
Cirulli, M. 385
Cisar, G. 120, 121
Clardy, J. 3444
Clark, A. L. 4141
Clark, G. E. 1370
Clark, M. F. 3467, 3578
Clark, R. L. 1015
Clark, W. S. 2641
Clarke, A. E. 172
Clarke, B. B. 2125
Clarke, C. A. 548
Clarke, R. G. 277, 2930, 3937
Clayton, C. N. 1106
Cleary, W. G. 4126
Cleene, M. de 690
Clements, R. C. 1079
Clerivet, A. 1151
Clerjeau, M. 3471, 3601
Cleveland, T. E. 2204, 4439, 5029
Clifford, B. C. 154, 1462
Clifford, D. R. 545, 2609, 3117, 3636, 4013
Clift, A. D. 1312
Cline, M. N. 4332, 5034
Cline, S. 4019
Coakley, S. M. 1889
Cobb, F. W., Jr. 419, 901, 1246, 1667, 3288, 4022
Cochec, F. Le 4031
Cociu, V. 1111
Cockbain, A. J. 4058
Cocucci, S. 3120
Cody, J. B. 3268
Coetzee, J. C. 5051
Coffee, R. A. 1840
Coggins, S. 1796
Cohen, D. 823
Cohen, L. 4910
Cohen, S. 4827
Cohen, Y. 2997, 4676, 4767, 4988, 4989
Cole, A. 2039
Cole, D. L. 2730
Cole, D. M. 2035
Cole, G. T. 3200
Cole, H., Jr. 246, 1083
Cole, K. M. 926
Cole, R. H. 1188, 3216
Cole, W. E. 1245
Coleman, D. C. 2812
Coleman, J. S. 2652
Coley-Smith, J. R. 1318, 2241, 2747, 4563
Colhoun, J. 359
Collaud, J.-F. 4257
Collendavelloo, J. 2627
Collingwood, E. F. 1793
Collins, G. B. 3229
Collmer, A. 21, 540
Collmer, C. W. 3799, 3800, 4438
Colombo, V. E. 1476
Colpan, M. 3459
Coltman, P. M. 3559
Colvill, K. E. 2526, 2527
Comai, L. 4592
Commonwealth Mycological Institute 950
Company, M. 2215
Comstock, J. C. 1628, 3641, 3967
Condé, A. R. 69
Congregado, F. 4188
Conijn, C. G. M. 3057
Conlin, K. C. 4446
Conner, R. L. 1282, 2207, 4535
Conover, C. A. 2075
Conover, R. A. 2053, 2156, 3595
Constantinescu, O. 2330
Conti, M. 1482, 2806, 4826
Contreras M., A. 3940, 3941
Conus, M. 4566
Converse, R. H. 276, 277
Conway, J. 796
Conway, K. E. 3251
Cook, A. A. 1421
Cook, R. J. 142, 633, 3490, 3829
Cooke, B. K. 4354, 4355
Cooke, B. M. 980, 2384, 4271
Cooke, L. R. 1161, 2609
Cooke, R. J. 4114
Cooksey, C. J. 1306
Cooper, G. R. 356
Cooper, J. I. 2528, 2906
Cooper, R. M. 2943
Copeland, R. B. 1161, 2081, 2114
Corazza, L. 1882, 1883, 1887
Corbin, J. B. 2191
Corke, C. T. 2283, 2289
Corlett, M. 74, 2885
Cornelissen, B. J. C. 3804
Cornelius, P. L. 1363
Cornu, A. 4333
Cornuet, P. 4631
Coroianu, A. 2573, 2751
Corsini, D. L. 4749
Corsini, G. S. 4967
Cortázar S., R. 2965
Corte, A. 2808, 2940
Cosma, I. 3602
Costa, A. S. 168
Costa, C. L. 457, 460, 461
Costa, C. P. da 4086
Costa, N. P. da 3343
Costa Neto, J. P. da 282
Costache, M. 4046
Costantino, P. 384, 3986
Cother, E. J. 845, 2624, 3631
Cotter, H. Van T. 764
Couch, T. L. 4114
Coulman, B. E. 4712
Coulson, J. R. 1362
Courtney, M. L. 3860
Couteaudier, Y. 1863
Couto, L. 2653
Coutts, R. H. A. 95, 1259, 4491
Couture, L. 614
Cover, E. C. 2501
Covey, R. P. 3438
Covey, S. N. 4209
Cowe, I. A. 1461, 2343
Cowling, E. G. 536
Cowling, W. A. 2536
Coxwell, R. A. G. 3264
Coyier, D. L. 234
Coyne, D. P. 3415, 3697, 4507
Coz, S.le 3212
Cozens, R. M. 2272
Craig, J. 3000
Craig, R. 1069
Craker, L. 4394
Crane, J. L. 685
Crawford, D. L. 3782
Crawford, M. A. 810
Creed, C. 517
Cresti, M. 4743
Crill, J. P. 4292
Crill, P. 3027
Crişan, A. 3079, 3267
Criscola, V. 1318

Crisp, P. 5008, 5013
Cristea, G. 4050
Cristinzio, G. 3789
Criswell, J. T. 4648
Cromack, K., Jr. 888
Crosby, J. 259, 454
Crowe, F. J. 3544
Cruikshank, R. H. 2893
Crush, J. R. 890
Crute, I. R. 1801, 2232, 2234, 3721, 4080, 4556, 5013, 5049
Cruz Arias, M. 4445
Cruz, C. S. de la 1762
Csinos, A. 877
Csinos, A. S. 755, 3230
Cucui, M. 3602
Cucuzza, J. D. 337
Cullen, D. 1488, 1914
Cullen, R. E. 528
Cummins, G. B. 1391, 1392
Cummins, J. N. 1099
Cunha, G. A. P. da 3149
Cuocolo, L. 1162, 4412
Cupertino, F. P. 457, 460, 461
Curiale, M. S. 866
Currie, D. 5004
Currier, T. C. 1791
Cuthbertson, D. C. 1461, 2343
Cutuli, G. 4692
Cwielong, P. 1217, 1218
Czajka, W. 3485
Czaplińska, S. 2446
Czembor, H. J. 2424, 2425
Czynczyk, A. 704
Dadwal, V. S. 3295
Daft, M. J. 50, 3774
Daguenet, G. 611
Dahiwal, A. L. 832
Dahiya, J. S. 1306
Dahlberg, K. R. 536, 2846
Dahmen, H. 2901
Dainello, F. J. 781, 3678
Dalbir Singh 2068, 4398
Dale, A. 1118
Dale, J. L. 89, 2529
Daley, L. S. 4177
Dalip Singh 148, 3486
Daly, J. M. 13, 1486, 2443
Damjanović, M. 757
Damroze, I. 1401
Damsteegt, V. D. 4884
Damu, K. P. 3175
Dando, T. R. 2270
Dang, J. K. 286, 1743, 1923
Dange, S. R. S. 182, 1020
Danial, D. L. 3950
Daniel, G. 2093
Daniell, J. W. 4364
Daniels, B. A. 4277
Daniels, M. J. 4126
Danielson, R. M. 564
Danilova, T. N. 1686
Danneberger, T. K. 247, 4338
Danon, T. 628, 4664
Danos, E. 1977
Dantanarayana, D. M. 4423
D'Aquila, F. 1076
Darby, P. 3927
D'Arcy, C. J. 4205
Dargan, J. S. 4190, 4191
Darisse, F. 614
Darrah, L. L. 1490
Darvas, J. M. 3586, 3587, 3589, 4946, 4947, 4948, 4950, 4951, 4952
Das, B. K. 915, 916, 917
Das, P. K. 860
Dasgupta, M. K. 4383
Dash, M. C. 194
Dash, S. C. 3858, 4905
Dashwood, E. P. 1118, 1119, 1181, 1182, 1186
Dath, A. P. 4289
DattaGupta, M. 3885
Daub, M. E. 3228
Daubert, S. 608
Daubert, S. D. 99
D'Aulerio, A. Z. 1656, 3660
Daulta, B. S. 286
Davet, P. 581, 4618
Davey, M. R. 131, 2783
David, A. 2887
Davidse, L. C. 3426, 3950
Davidson, J. G. N. 4879
Davies, C. 2531
Davies, D. L. 3467
Davies, F. S. 1042, 2308
Davies, I. J. E. R. 1464
Davies, J. W. 4209
Davies, M. K. 3607
Davies, W. P. 618, 3497
Davino, M. 2015, 3864
Davis, C. N. 2662, 5005
Davis, D. D. 2658, 4990
Davis, D. W. 2439, 3845
Davis, J. H. 3702
Davis, J. R. 4967
Davis, M. J. 3083
Davis, R. A. 3420
Davis, R. D. 1127, 3982, 3983, 4933
Davis, R. E. 3064
Davis, R. F. 3684
Davis, R. M. 2494
Davison, E. M. 2845
Davydova, M. A. 3308, 4494
Dawe, D. L. 3995
Dawley, K. 40
Dawood, M. K. M. 127
Dawson, G. W. 4042
Dawson, J. R. O. 4209
Dawson, P. 394
Dawson, W. O. 592, 3798
Dayal, R. 2883
Daykin, M. E. 3132
Deacon, J. W. 4230
Dean, J. L. 741, 742, 2134, 3640
Deas, A. H. B. 545, 2609
Deaton, W. R. 3229
DeBlois, L. D. 4940
Dębowski, W. 2674, 2675
Debrot, E. A. 520, 4415
Dedryver, C. A. 1424
Dedusenko, G. Ya. 25
Deema, N. 1692, 3703, 5044
Deenen, A. 1177
Défago, G. 3238, 3239
Defrancq, M. 1793
Degenhardt, K. J. 2435
Dehne, H.-W. 48, 555
Dehorter, B. 4168
Dekker, J. 1797
Del Re, A. 2280
Delaney, H. 517
Delas, J. 328
Delbos, R. 4633
Delcheva, S. 3553
Delen, N. 873
Delgado, M. 1128
Delhaize, E. 1554, 1555
Delhey, R. 2100
Delibes, A. 3494
Dell, A. 3339
Dellavalle Fedi, I. 1239
Dellavalle, G. 5023
Delmas, J. 3432
Delon, R. 4768
DeLucca, A. J. 416
Delver, P. 2541
Demain, A. L. 2852
DeMars, C. J. 1667
Demina, R. B. 3338
Deml, G. 347, 913
Demski, J. W. 3093, 3375
Deo, P. P. 3380, 5045
D'Ercole, N. 1527, 1582, 2862
Derks, A. F. L. M. 688, 3057, 3532
Dernoeden, P. H. 3547
Derr, M. A. 4204
Derrick, K. S. 609
Derzhipil'skiĭ, L. M. 955
Desai, S. A. 494, 728, 774, 819
Desayla, R. D. 3966
Deshmukh, A. K. 4739
Deshpande, G. D. 3326
Deshpande, K. B. 2786
Deshpande, K. S. 1325, 1605
Deshpande, U. K. 1325
Despreaux, D. 3422
Dessert, J. M. 2200
Detweiler, A. R. 4338
Detweiler, R. 242
Deutsch, E. 4745
Dev, V. P. S. 2480
Devadath, S. 1040, 3006
Devash, Y. 4635
DeVay, J. E. 175, 1173, 1989
Devi, L. R. 1930
Devnath, S. K. 3975
Dewar, A. M. 1872, 2392, 4868
Dewey, W. G. 2969, 2970
Dhaliwal, H. S. 148, 3378, 3486
Dhaliwal, J. S. 180
Dhamnikar, S. V. 496
Dhanapala, M. P. 4299
Dhande, G. W. 3949
Dhanvantari, B. N. 1110, 2553
Dhar, V. 2211
Dhawan, S. 2683
Dhingra, O. D. 489, 4543, 5035
Di, Y. 2482
Diab, S. 1322, 2246, 4573
Diaconu, V. 2801
Dianese, J. C. 1130, 2193, 5017
Dianis, S. D. 1243
Dias, H. F. 1136
Dias, M. R. de S. 2874, 2875
Diatloff, A. 4065
Díaz, A. 721
Díaz A., J. A. 4304
Díaz Botta, E. d'E. de 1197
Díaz de Ackermann, M. 2962
Díaz, M. 2978
Dick, M. 4465
Dick, M. W. 4620
Dickens, R. 4340
Dickerson, A. G. 645
Dickinson, C. H. 855, 2706, 2707
Dickman, L. A. 2827
Dickman, M. B. 4957
DiCosmo, F. 2287
Didyk, O. A. 4121
Diederichs, C. 1368, 4843, 4844
Diehl, J. A. 1445, 2960
Diem, H. G. 2304
Diener, T. O. 2349
Dienes, J. G. 1090
Dietert, M. F. 2368, 3779
Dighton, J. 4606
Dijkhuizen, J. P. 3572
Dikshit, A. 1946, 4130
Dilbeck, R. 451
Dill, T. R. 755
Dimitrov, M. 4225, 4643
Dimopoulou-Leccas, D. 4773
Dimov, A. 3706, 4660
Dinç, N. 3138
Diner, A. M. 1241, 1242
Diouf, M. 1793
Diriwächter, G. 736
Dirks, V. A. 2553
Disthaporn, S. 188, 1935
Dixit, C. K. 3868
Dixit, R. B. 153, 1455, 2750, 2803, 3729, 4133, 4272, 4668
Dixit, S. N. 37, 1357, 1358, 1946, 2802, 3427, 4821
Dixon, C. S. 5002
Dixon, G. R. 441, 442, 3681
Dixon, L. K. 2996
Djerbi, M. 1155, 1157
Djiekpor, E. K. 612
Dobashi, S. 2469
Dobrovolszky, A. 1795
Dobson, R. 2190
Dobson, R. L. 2187, 3311, 4038
Dobson, S. C. 3502
Docea, E. 2573, 2751
Dodan, D. S. 2735
Dodd, J. 3771
Dodd, S. M. 946
Dodds, J. A. 3455
Doherty, M. d'A. 2501
Doi, Y. 1598, 2746
Doke, N. 357, 358
Dolja, V. V. 3462, 4208
Dolle, U. V. 727
Dollet, M. 2364
Domański, S. 70, 3269
Dominguez, G. 4571
Doncheva, I. 4225
Donndelinger, C. R. 102
Donnelly, D. M. X. 4028
Donnelly, E. D. 3902, 3903
Doolittle, W. F. 1395
Doornik, A. W. 1059, 3057
Döring, U. 1169
Dorofeev, V. F. 2393
Dorokhov, Y. L. 4764
Dorosiev, L. 3980
Dorozhkin, N. A. 610, 1187, 1885
Dorset, R. D. 4473
Dorssers, L. 2913
Dorworth, C. E. 1235, 2662, 5005
Dosba, F. 4659
Doshi, S. K. 1754
Douds, D. D., Jr. 892
Dougherty, D. E. 3373
Douglas, C. J. 1338
Doupnik, B., Jr. 114
Doussinault, G. 3491, 3494, 3495, 4659
Dovey, M. D. 251
Dow, A. 2017
Dow, P. 4509
Doweyko, A. M. 3420
Dowler, C. C. 3510
Dowley, L. J. 2107
Doz, B. 4633
Drăgoescu, E. 2801
Drăgoescu, M. 2801
Drake, G. 2708
Draper, J. 2783
Drenska, E. 4643
Drews, G. 2766
Drinkall, M. J. 2227
Drok, M. K. W. 135
Drouhard, A. 3127
Du, J. Y. 4685
Du Plessis, J. E. 4883
Dua, I. S. 4499
Duarte Casanova, A. 4445
Dube, D. K. 902, 1303
Dube, H. C. 572, 863, 1629, 1754, 3395, 4614
Dube, S. 902
Dube, V. P. 1547
Dubey, G. S. 1729, 2739
Dubey, N. K. 37, 1357, 1358, 1798, 1799, 4130
Dubin, H. J. 119
Dubos, B. 303, 327, 4732
Duca, L. de J. A. Del 118
Duclos, J. L. 2837, 3777
Duczek, L. J. 921, 1475, 4229, 4879
Duddridge, J. 899
Dudeja, S. K. 1687
Dudka, I. A. 75
Dueck, J. 4788
Duffus, J. E. 340, 353, 605
Duineveld, T. L. J. 3057
Duke, S. O. 1309
Dukharev, N. A. 4656
Dula, B. 1143
Dumas, T. 1349
Dumitraș, L. 3155
Dunbier, M. W. 970
Duncan, G. H. 969, 1058, 2924, 4349
Duncan, J. M. 1124
Dunez, J. 4633
Duniway, J. M. 535
Dunkle, L. D. 4282, 4283
Dunleavy, J. M. 487
Dunn, J. J. 416
Dunn, M. T. 924, 1756, 4508
Duraiswamy, V. S. 1501, 4897, 4898
Duran-Vila, N. 607
Durand, B. 3588
Durand, D. P. 477, 1284, 4063
Durand, S. J. 4945
Duranti, A. 1162, 4412
Durbin, R. D. 4806
Durgapal, J. C. 663
Durynina, E. P. 2986
Dutky, E. M. 5066

Dutta, A. K. 1965, 3945
Dutta, B. K. 1390
Dutta, R. 1303
Dutzmann, S. 2422
Dwazah, K. 3650
Dwivedi, A. K. 3542
Dwivedi, D. K. 1005, 1597, 2065, 3919
Dwivedi, R. S. 3088
D'yachneko, T. Yu. 1071
Dyke, C. G. Van 2647, 3297
Dylewski, D. P. 4620
Dzhilyanov, D. 1126
Dzido, J. L. 2364
Dziewońska, M. A. 2596
Eaks, I. 4943
Earle, E. D. 4889
Eastman, C. E. 3190
Ebbels, D. L. 4411
Ebben, M. H. 2006, 2196, 2197
Ebing, W. 3756
Eboh, D. O. 2933, 3281
Ebrahim-Nesbat, F. 1003, 1470, 2983, 4540
Echandi, E. 1624, 2623
Echenique, B. I. C. de 672
Ecker, O. 1428
Eckert, J. W. 1972, 1975
Eckhardt, H. 3841
Eckstein, Z. 2795, 2796
Eden-Green, S. J. 349, 2077, 2437
Edens, T. C. 536
Edgington, L. V. 544, 2281, 2602, 4620
Edney, K. L. 3551
Edwards, C. J., Jr. 485
Edwards, H. H. 808, 4266
Edwards, M. C. 2143, 2923
Edwards, M. L. 2528
Edwards, P. 3604
Edwardson, J. R. 3209
Edwige, S. 4092
Eenink, A. H. 2233, 4079
Effmert, B. 2124
Efron, Y. 2992
Egerer, A. 4763
Egger, E. 329, 2570, 3598
Egger, K. 2885
Egger, K. N. 74
Egli, T. 241
Egorov, A. M. 4754
Egorova, L. N. 3521
Ehlers, J. L. 4855
Ehlers, U. 4414
Eichhorn, K. W. 318, 2572
Eicker, A. 4861, 5051
Eisa, N. A. 2715, 2716, 2717
Eisbein, K. 3476
Eisma, C. 666
Ek, M. 4137
El-Abyad, M. S. 3811
El-Allaf, S. M. 3062
El-Ammari, S. S. 3687
El-Atta, O. K. 4518
El-Bogdadi, M. M. 2613
El-Dahab, M. K. A. 1148, 1149
El-Faham, Y. M. 1213
El-Fahl, A. M. 2430
El-Fiki, F. A. 2313
El-Gendi, D. M. 1214
El-Gharib, L. A. 1295
El-Gholl, N. E. 1042, 1077, 2889
El-Goorani, M. A. 1108, 4306
El-Goorani, M. N. 3062
El-Halwagy, M. H. 3188
El-Hamalawi, Z. A. 1251
El-Hammady, M. 3188, 4518
El-Hassan, S. A. 1211
El-Kady, A. 2782
El-Kady, El-S. 4119
El-Kady, S. 1786
El-Kasheir, H. M. 4306
El-Kazzaz, M. K. 197, 993, 3139, 4307
El-Khadem, M. 940, 941, 993
El-Khadem, M. M. 198
El-Lakany, M. H. 778, 779
El-Nashaar, H. M. 2184
El-Nasr, H. I. S. 4348
El-Saied, H. M. 1133
El-Samadisy, A. M. 1213
El-Samra, I. A. 1050, 1213
El-Sayed, E. I. 2532, 2533, 2613, 2748
El-Sebaey, M. A. 1146
El-Shabrawy, A. M. 1716
El'-Shanauani, M. Z. 3449
El-Shewy, L. A. 2715, 2716, 2717
El-Tobshy, Z. M. 2532, 2533, 2613, 2748
El-Wakil, M. 862
Elad, Y. 64, 905, 1829, 4184, 4315, 4619, 4920
Elander, R. P. 3762
Élbakyan, M. A. 2670
Elenwa, E. N. 3636
Elgin, J. H., Jr. 255, 3899
Elkins, J. R. 4995
Ellenberg, H. 2766
Ellingboe, A. H. 627, 1444
Ellis, J. G. 854
Ellis, M. A. 278, 1564, 3104, 3581
Elliston, J. E. 13, 398
Ellsbury, M. M. 1085
Eloy, J. F. 876, 3769
Emberger, G. 2028, 3092
Emge, R. G. 4114
Emiroglu, U. 4429
Emmanouil, V. 2794
Emmatty, D. A. 759
Emmett, R. 4959
Emua, S. A. 3732
Endo, K. 3022
Endo, M. 2681
Endo, R. M. 4790
Eng, C. 1833
Engelhard, A. W. 3538, 3543
Engelhardt, M. 1531
Engibarova, R. 4643
Englander, L. 898
Ensing, J. 1086
Entwistle, A. R. 826, 3725, 3726, 5056
Epperlein, M. 4528
Ercolani, G. L. 4384, 4728
Ercoli, L. 3760
Erdiller, G. 977
Erfurth, P. 3170, 3738
Erickson, J. W. 3803
Erkan, S. 1167, 2090, 4437
Ernst, W. H. O. 4580
Érsek, T. 1294, 3350
Erwin, D. C. 3414, 3778, 4164, 4351
Esbenshade, P. R. 524
Escaffi, O. 379
Esengulova, B. Zh. 1080
Esentepe, M. 1053, 4185
Eskenazy, M. 2506
Eskes, A. B. 1047, 1049, 3053, 3879
Esler, G. 2747
Espósito, S. M. 4366
Espuny Tomas, J. M. 4188
Essenberg, M. 1055, 1056, 2501, 3882
Esser, K. 2766
Esson, M. J. 868
Esterbauer, H. 777
Estrada, E. H. 813
Étienne, J. 664
Etten, J. L. Van 536, 2846, 2847
European and Mediterranean Plant Protection Organization 31, 885, 1805
Evans, H. C. 1422
Evans, H. M. 841
Evans, I. M. 604
Evans-Ruhl, G. E. 951
Everett, B. 5054
Everhart, L. P. 1351
Eversmeyer, M. G. 3484
Evlanova, T. M. 616
Eyal, H. 4989
Eyal, Z. 628, 2974, 4664
Faccioli, G. 459, 4207, 4700
Fackrell, H. B. 3246
Fagan, S. G. 682
Fahim, M. M. 1251
Fahlgren, C. H. 3419
Fahy, P. C. 5058
Faiad, M. G. R. 4221
Faithfull, E. M. 1848, 1851, 4856
Faivre-Amiot, A. 3094
Fajemisin, J. 1910
Fajemisin, J. M. 2992
Fajola, A. O. 205, 3732, 4305
Falk, B. W. 1854, 2181, 3720
Fallik, E. 3247
Falloon, P. G. 1748
Falloon, R. E. 4924
Fan, T. X. 4666
Fang, H. C. 497
Fang, R. 3644
Fang, S. M. 1763
Fang, Z. 2415
Fannin, F. F. 1634
Fantino, M. G. 1742
Faoro, F. 1203
Fargette, D. 689, 2203
Faria, J. C. 3856
Faria, J. C. de 1937
Farina, G. 2288
Faris, M. A. 4930
Faris-Mukhayyish, S. 2907
Farkas, G. L. 4766
Farnworth, E. R. 4677
Farooq, M. 3658
Farooqi, W. A. 1974
Farrag, S. H. 96, 97, 98
Farrand, S. K. 2268
Farrar, J. F. 2416, 3837
Fatokun, C. A. 3520
Faulkner, J. S. 1082
Faull, J. L. 3329
Fauquet, C. 4091
Faut, J. G. 1920
Fauvel, C. 595
Favreau, P. 3052
Favret, E. A. 992
Fayed, M. A. M. 677
Fayret, J. 83
Fazio, G. de 458
Federici, F. 576
Fedorov, A. K. 617
Fedoseeva, Z. N. 981
Feese, D. A. 1789
Feitosa, M. I. 975
Feliciano, C. 186
Fellman, J. K. 2861
Feng, G. 4045
Ferault, C. 3661
Ferguson, I. B. 3121
Ferguson, J. J. 58
Ferji, Z. 1690
Fernandez, J. A. 4872
Fernandez-Northcote, E. N. 89
Fernández Suárez, R. 806
Fernando, S. Y. 1421
Ferree, D. C. 1564
Ferreira, A. S. 181
Ferreira Filho, A. W. P. 3826
Ferreira, P. V. 4086
Ferreira, S. A. 1628, 3641, 3967
Ferrière, H. 4566
Ferriss, R. S. 1709
Fett, W. F. 5037
Fettouche, F. 3423
Fiasson, J.-L. 2887
Fica, J. 3911
Ficke, W. 1095
Figueiredo, E. R., Jr. 1626
Figueiredo, M. B. 1065
Figueiredo, P. 1048, 1626, 1721
Filigarová, M. 1534
Filip, I. 3136
Filipia, R. 5063
Filipov, Kh. 3706
Filippov, A. V. 3210
Finci, S. 4252
Fineran, J. M. 2332
Finnikov, V. G. 1175
Fischbeck, G. 637, 1469
Fischi, G. 4278
Fiscus, E. L. 1813
Fisher, N. L. 3536, 3537
Fishler, G. 4911
Fishman, S. 4301
Fitt, B. D. L. 1399, 2413, 2977, 3493, 4255
Fitte, P. 3242
Fitzell, R. D. 1127
Fitzgerald, W. 980, 2384, 4271
Flanderková, V. 1376
Flavelle, P. H. 3629
Fleming, R. A. 978, 1778, 2953, 2956
Flemming, S. 1218
Fletcher, D. A. 3570, 3576
Fletcher, D. S. 178
Fletcher, G. 292
Fletcher, J. 3189, 3190
Fletcher, J. G. 4057
Fletcher, J. T. 4558
Fletcher, R. H. 4924
Flewett, T. H. 1848
Flood, J. 254
Florea, N. 2801
Flores, S. 2129
Fobes, J. F. 2200
Foddai, A. 1746
Fokkema, N. J. 536, 2414, 3822
Folk, Gy. 3889
Follin, J.-C. 211, 215, 1985
Fomicheva, V. V. 3745
Fomin, L. A. 2670
Fontana, A. 889
Foppen, F. G. 4694
Forche, S. 3841
Forer, L. B. 260
Forestry Commission, UK 2646
Forgey, W. M. 1490
Formigoni, A. 2288
Fornet, E. 1152
Fornet H., E. 923
Foroughi-Wehr, B. 1469
Forrer, H. R. 619
Forsberg, L. I. 4378
Förster, H. 3778
Forster, R. L. S. 2354, 4636
Førsund, E. 2608
Fortin, J. A. 42, 56, 1367, 2810, 2829, 2835, 3765, 3776, 3777, 4143, 4157, 4158
Fortlage, R. J. 3139
Fortnum, B. A. 755, 1640, 3345
Fortusini, A. 1591
Fosberg, F. R. 3278
Fossati, A. 620
Foster, J. E. 2920
Foster, K. W. 3217
Foster, L. E. P. 1244
Foudin, A. S. 243
Fouré, E. 3141
Fox, R. A. 1118, 1119, 1181, 1182, 1186
Foxe, M. J. 1168
Fradkin, A. 4186
Fraedrich, B. R. 421
Fraenkel-Conrat, H. 90
Fraga, B. M. 1819
Fraile, A. 1702
France, R. C. 2821
Franceschini, A. 4772
Francki, R. I. B. 89, 2531, 2922, 3805
Franco, A. Di 1405, 1745, 4697, 4702, 4704
Frane, G. D. 352
Franich, R. A. 417
Frank, J. A. 1617
Franzone, P. M. 992, 1469
Fraser, R. S. S. 597, 1851, 2892, 3225, 4162, 4856
Frătilă, E. 2573
Fravel, D. R. 3303
Frazão, A. 317
Frederiksen, R. A. 183, 649, 1494, 2954, 3000
Freed, R. D. 2972
Freeman, G. H. 2234
Freeman, J. P. 2783
Freeman, T. E. 528
Freer-Smith, P. H. 971
Fregonezi, L. E. 3826
Freitas, A. P. do C. 4247

French, D. W. 773, 2173, 2649, 4471
French, E. R. 2122
French, R. C. 3441
French, W. J. 3417
Frey, F. 2108
Freyer, K. 3261, 3262
Fribourg, C. E. 89, 3208
Fridman, A. M. 958
Friebertshauser, G. E. 1989
Fried, P. M. 620, 4244
Friedmann, M. 2672
Friedt, W. 1469, 2981
Friend, J. 4974
Fries, N. 1435, 1810
Frison, E. A. 3400
Frisullo, S. 1893
Fritig, B. 1633, 2627, 2628
Fritz, R. 3422
Fritzsche, R. 3234, 4493, 4506, 4561
Frolov, I. P. 2877
Frontera, G. M. 4605
Frosheiser, F. I. 3899, 3900
Frossard, P. 719
Frossard, R. 2414, 3822
Fry, P. R. 823
Fry, W. E. 1615, 1616, 2264
Fu, Y. K. 1867
Fuchs, E. 3102, 3676, 4416
Fuchs, Y. 4910, 4955
Fucks, A. 3647
Fudi-Allah, A. E.-S. A. 3533
Fuertes, C. 4302
Führ, F. 2955
Fuhrer, B. A. 760
Fuhrer, J. 2990
Fujii, H. 3894, 3895
Fujimori, T. 3460
Fujimoto, M. 3014
Fujinami, A. 2286
Fujisawa, I. 2679, 4784
Fujita, Y. 659, 2382, 3346
Fukaya, T. 2468, 2469
Fukuhara, Y. 1131
Fukui, T. 2558, 2559
Fukushima, C. 2547
Fulbright, D. W. 2157, 2158
Fulk, D. W. 1428
Fuller, G. 4151
Fuller, M. M. 3552
Fullerton, R. A. 1012, 1589
Fulton, J. P. 279, 1273, 3916
Fulton, R. W. 2040
Funk, A. 2666
Funk, C. R. 2022
Furkayastha, R. P. 3859
Furlan, V. 56, 4157, 4158
Furtado, J. S. 12
Furuichi, N. 357
Furuki, I. 2701
Furusawa, I. 575, 784, 1263
Furuya, H. 804
Füstös, Zs. 2749
Fyfe, A. M. 1817
Gáborjányi, R. 3221, 3350
Gabr, M. R. M. 2515
Gabriel, C. J. 609
Gabriel, D. W. 627, 1444
Gabriel, W. 2094, 2593
Gabrielson, R. L. 2187, 2190, 3311, 4038
Gadd, G. M. 4176
Gadgil, P. D. 4464, 4465
Gaedigk, K. 2356
Gaetán, S. A. 3186
Gaevaya, V. P. 4222
Gaines, C. G. 17
Galan Sauco, V. 2052
Galindo, J. J. 1276, 4056
Galitelli, G. 4727
Gallagher, M. 551
Gallavan, R. E. 3699
Galletti, D. 4697
Galli, R. 2288
Gallian, J. J. 234
Galliano, A. 3920
Gallitelli, D. 1319, 1745, 3318, 4703
Galston, A. W. 3842
Galuşinschi, A. 2801
Gálvez, G. 1276, 3698, 4056
Gambaryan, G. S. 316
Gámez, R. 89
Gams, W. 81, 1313, 2766
Gancheva, I. 3137
Gando, J. 372
Gandy, D. G. 2236
Gangawane, L. V. 1724, 1725, 2958
Gangopadhyay, S. 661, 2474, 4187
Ganorkar, M. C. 1356
Gao, S. 1039
Gao, S. Z. 137
Gaponova, A. G. 997
Garbaye, J. 2822
Garber, E. D. 1833, 1834, 2848
Garber, R. H. 1984
García-Arenal, F. 1702
Garcia-Olmedo, F. 3494
García, S. 2936
García, S. M. 3215
García-Serano, J. J. 1702
Garcia, V. 721
Gardner, J. S. 2898, 2899, 3828
Gardner, R. C. 608
Gardner, R. G. 391
Garfinkel, D. J. 1785
Gargani, D. 2364
Garibaldi, A. 323, 1060, 1061, 1062, 1104, 1137, 1685, 2690, 2927, 3061, 4504, 4731
Garner, J. G. 4749
Garnett, H. M. 4339
Garran, J. 694
Garratt, P. J. 1306
Garrec, J. P. 550, 1575, 1666, 3770
Garrett, C. M. E. 3570, 3576
Garrod, B. 3316
Garrott, D. G. 3129
Garsed, S. G. 775
Gaskin, R. E. 417
Gasparotto, L. 69, 508, 738, 739
Gasperini, C. 493, 1623
Gates, C. E. 630
Gatti de de León, I. 2964
Gaur, R. B. 1385, 4823, 5047
Gaur, R. D. 2878
Gautam, S. P. 1517, 3866, 4624
Gauthier, L. 4051
Gavrilov, A. A. 4238
Gavrilova, V. P. 3673
Gay, J. L. 3329
Gay, M. R. 2357
Gayed, S. K. 3648
Gazar, A. A. 2515
Gbaja, I. S. 2148
Geballe, G. T. 3842
Geelen, J. A. 868
Geest, A. J. M. Van der 4074
Gehriger, W. 2082, 4409
Geiger, J. P. 1418, 1625
Geilfus, F. 3261, 3262
Gelder, W. M. J. Van 1170
Gelimbatovskaya, R. V. 436
Gemawat, P. D. 1602, 1603, 1604, 1606, 1607
Genchev, D. 3693
Gendle, P. 3117, 4013
Gendloff, E. H. 4390, 4960
Gendrier, J. P. 2551
Geng, S. 2900
Gengenbach, B. G. 2996
Gentile, I. A. 4129
Geoffroy, P. 2628
George, B. F. 759
George, G. 1305
Georgopoulos, S. G. 4610
Georgy, N. I. 2241
Gera, A. 2137, 4632, 4765
Gerbier, N. 4400
Gerhold, N. R. 2156
Gerlach, W. 2325
Gerritsma, O. C. M. 3426
Gessler, C. 1691
Getz, S. 2157, 2158
Getz, W. M. 942, 1580
Ghabrial, S. A. 474, 820, 4061
Ghaffar, A. 662
Gheorghieş, C. 3488
Ghewande, M. P. 1299
Ghobrial, E. 2430
Ghodasara, M. T. 4071
Ghorpade, S. A. 3193
Ghosal, A. 3033, 3859
Ghosh, J. 1435
Ghosh, N. 2127
Ghosh, P. 4600
Ghufran, S. M. 128
Gianinazzi-Pearson, V. 2304, 4604
Gianinazzi, S. 4333, 4604
Gibbins, L. N. 4838
Gibbons, N. E. 856
Gibbons, R. W. 3374
Gibbs, A. 694
Gibbs, A. J. 89
Gibbs, J. N. 2646, 3271, 4467
Gibson, R. W. 1545, 2092, 3205
Gieren, A. 3780
Gijsegem, F. Van 4590
Gil, A. 339
Gilbert, O. L. 4451
Gilbride, E. P. 1083
Gilchrist, D. G. 2536
Gildow, F. E. 1400, 2950
Gill, A. S. 3378
Gill, D. S. 1406
Gill, S. P. S. 516, 4041
Gill, S. S. 515
Gillaspie, A. G., Jr. 3083, 3640
Gillett, J. M. 4386
Gilligan, C. A. 145, 473, 2868
Gilly, A. 1777
Gilly, G. 1381
Gilpatrick, J. D. 1566, 2036, 3906
Gindrat, D. 736
Gingery, R. E. 1480
Ginns, J. 74, 2885, 3788
Giovannetti, G. 889
Giovannetti, M. 4145
Girardet, F. 3165
Girbardt, M. 2766
Girgis, A. N. 3188
Giri, D. N. 1751
Giridharan, S. 3283
Gisi, U. 1375
Gitaitis, R. D. 4447
Giunchedi, L. 932, 3568
Givord, L. 838
Gjærum, H. B. 4219, 4359
Gladkikh, T. A. 3308
Glawe, D. A. 1141
Glaze, N. C. 2755
Glits, M. 4081
Gnanamanickam, S. S. 1293
Gobina, S. M. 4067
Godbout, C. 4143
Godish, T. J. 1216
Goel, A. K. 4738
Goel, R. G. 2283
Goh, K. M. 560
Goh, N. 3022
Gohar, M. A. 98
Goheen, A. C. 3156
Göhlich, H. 2562
Goidànich, G. 4002, 4011
Goidànich, S. 4001
Goka, K. 612
Golan, Y. 3672
Gold, R. E. 1107, 2503
Goldbach, R. 606
Goldmann, A. 854
Goldschmidt, Z. 4989
Goldstein, D. 3055
Golik, V. S. 616
Golovin, A. V. 4742
Golubev, A. A. 2705, 2741, 3338
Gombos, Z. 4766
Gomda, K. T. P. 660
Gomda, S. S. 660
Gómez, L. F. 4519
Gomez-Miranda, B. 4171
Gomez-Ortega, M. 893
Gomez, P. L. 4759
Gönczöl, J. 4193
Gonsalves, D. 1099, 1700, 2143, 2923, 3554
Gonzalez, A. G. 1819
González Ávila, M. 803
González F., V. R. 4029
González M., S. 266
Gonzalez, P. 1819
Gooding, G. B. 4128
Gooding, G. V. 750
Goodman, C. A. 4942
Goodman, R. M. 593, 1285, 2720, 3190, 5032
Goodman, R. N. 4936
Gopalakrishnan, C. 3763
Gorbatenko, L. E. 2591
Gorbunova, N. I. 4708
Gordon, D. T. 1480, 3506, 3507
Gordon, K. H. J. 1406
Gordon, M. P. 854, 1785, 1787
Gordon, P. L. 4080, 5013, 5049
Gordon, S. C. 4970
Górski, D. 3623
Gorter, G. J. M. A. 2360, 2935, 4861
Gospodinova, E. 1886, 4660
Goth, R. W. 3955
Goto, H. 2586
Goto, K. 2117
Goto, T. 2488, 3361
Gottwald, T. E. 1225
Gottwald, T. R. 4779
Götz, J. 350
Gough, K. H. 3060
Gour, H. N. 4614
Gourley, C. O. 4189
Gourret, J. P. 550, 3769, 3770
Govi, G. 1656, 4140
Govindankutty, M. P. 4746
Govindarajan, K. 1942
Govindaswamy, C. V. 3371
Gowda, B. A. 184
Gowda, M. T. G. 4309
Gowen, S. 3718
Gowers, S. 2192
Gowily, A. M. 1146
Goyal, M. K. 2224
Graaff, N. A. Van der 1982, 4834
Graca, J. V. da 3584, 3585, 4942
Grace, L. J. 549
Gracen, V. E. 536
Grafton, K. F. 149, 1457
Graham, A. H. 4381
Graham, D. C. 2103
Graham, J. 4548
Graham, J. H. 565, 3299
Graichen, K. 1113
Grainger, J. 967
Grambow, H.-J. 4170
Gramshaw, D. 253
Granada, G. A. 4123
Granata, G. 294, 3541
Grand, C. 1266
Granett, A. L. 106
Granger, J. W. 4873
Granger, R. L. 2835
Graniti, A. 2809, 4693, 4694
Grant, B. R. 60
Grant, M. W. 3479
Grassert, V. 2124
Grassi, S. 3660
Grasso, A. 1514
Grasso, S. 228, 232, 1537, 1970, 3541, 3884
Grasso, V. 4782
Grattidge, R. 1645
Gray, D. J. 2647, 3297
Gray, F. A. 695, 3091
Gray, L. E. 3705, 5033
Grbavac, N. 1871, 1905, 3816
Greaves, D. A. 4237
Greber, R. S. 89, 178, 248
Gréc, L. 36
Gredt, M. 321, 3421, 3424
Green, G. J. 983
Green, J. F. 3169
Green, R. E. 2676
Greenhalgh, F. C. 3075
Greenhalgh, G. N. 3256
Greenhalgh, R. 4677
Greenland, A. J. 4882

Greer, F. C., Jr. 3533
Gregory, L. V. 167, 1083
Gregory, P. H. 11, 1776
Gregory, S. C. 397, 2646
Greig, B. J. W. 1244, 2646, 3264
Grente, J. 400
Greszta, J. 4003, 4004, 4005, 4006, 4007
Greve, H. de 854, 2140
Grewal, J. S. 369, 1736, 1737, 4816
Greznev, V. P. 758
Griesbach, E. 3234
Griesel, A. 4735
Griffin, D. E. 1403
Griffin, G. J. 4995
Griffini, A. 2288
Griffiths, E. 1467, 1870, 1903, 2957, 4254
Griffiths, J. B. 2412
Grigoletti Junior, A. 3922
Grigor'ev, M. F. 2961
Grigor'eva, N. K. 3673
Grigor'eva, O. G. 2402
Grigortsevich, L. N. 1374
Grigoryan, Yu. A. 20
Grill, D. 777
Grilli Caiola, M. 1529
Grimaldi, G. 384
Grimshaw, J. T. 3728
Grinstein, A. 4911
Grippiolo, R. 895
Grisebach, H. 482
Grishkova, V. P. 2138
Grivell, C. J. 2922
Groeneweg, H. 670
Groenwold, R. 4079
Grogan, R. G. 536, 1541, 2314
Grohmann, U. 1355
Gromyko, G. N. 616
Groot, B. de 4115
Gross, D. C. 1622
Grossmann, F. 1397, 2696, 4178, 4674
Groth, J. V. 518, 1429, 2439, 3845
Grout, B. W. W. 2016
Grove, G. G. 1564, 3581
Grove, M. D. 284
Grover, R. K. 908, 1923
Grunewaldt-Stöcker, G. 2508, 2509
Grüntzig, M. 3675, 3676
Grupo Paulista de Fitopatologia 3740
Gryuner, A. M. 1563
Gu, B. 3878
Guardiola, J. 384
Gubiš, V. 252, 693
Gudauskas, R. T. 1478, 3846
Guedes, M. E. M. 1206
Guerard, J. P. 3217
Guerzoni, M. E. 333
Gugerli, P. 2082
Guibordeau, P. 1993
Guinchedi, L. 3913
Gull, N. 2300, 2301
Gullino, G. 3058
Gullino, M. L. 323, 725, 1060, 1076, 1104, 1138, 3061, 3069, 4731
Gumpf, D. J. 3808, 3809
Gunamani, M. 2014
Gunasekaran, M. 574
Gunawardena, I. 2489
Gunawardena, K. I. J. 3570
Gunenc, Y. 2092
Gunn, L. V. 5058
Guo, H. M. 2910
Guo, Y. 2327, 3511
Guo, Y. L. 2884
Gupta, A. A. 1792
Gupta, A. K. 1509
Gupta, A. K. S. 1792
Gupta, D. 912
Gupta, D. K. 1696
Gupta, J. P. 125
Gupta, J. S. 153, 237, 795, 1455, 2511, 2750, 2803, 3380, 3729, 4133, 4272, 4334, 4668, 4828, 5045
Gupta, M. D. 3716
Gupta, M. N. 1518
Gupta, P. K. S. 1037, 2478, 4294, 4297
Gupta, R. K. 3929
Gupta, R. N. 2576
Gupta, S. P. 34, 1924
Gupta, V. K. 3332
Gurbakhsh Singh 180
Gurevich, B. I. 3210
Gurha, S. N. 1522, 1735, 2228, 3719
Gurlitz, R. H. G. 2267
Gusev, V. Yu. 4256
Guseva, N. N. 1054
Gussin, E. J. 2388
Gustafson, G. D. 4209
Gustafsson, K. H. 3419
Guthrie, E. J. 836, 1759
Guthrie, W. D. 1015
Gutierrez, A. P. 1989
Gutsche, V. 3948
Guttay, A. J. R. 3439
Guy, P. 5064
Guzmán, G. 3764
Guzman, V. L. 2181
Gvozdyak, R. I. 19, 25
Gwin, G. H. 3712
Gwynne, D. C. 2372
Gyöngyvér, Sz. N. 2034
Győrfy, J. 1315
György, E. B. 1609
Haaland, R. L. 4340
Haas, J. 3771
Habashi, M. 4300
Habib, S. A. 4518
Hächler, H. 361
Hacke E., E. 2965, 2968
Hackerott, H. L. 2447
Hadar, Y. 905, 1822, 4516, 4920
Hadjichristodoulou, A. 115
Hadley, G. 2836
Hadwiger, L. A. 4511
Hady, H. L. A. 96, 97, 98
Haegashi, H. 2466
Haenni, A. L. 4427
Hafidi, B. 1690
Hagedorn, D. J. 1275, 1701, 3333
Hagenaars, A. M. 4217
Hagerman, A. E. 3508
Hagiwara, H. 2687
Hahn, S. K. 1764, 3399
Hait, G. N. 199
Hajra, N. G. 2127
Hakak, Z. A. 2237
Hakohen, D. 4911
Halbinger, R. E. 4605
Hale, C. N. 3337
Hale, K. A. 2823
Hale, M. G. 814
Halfon-Meiri, A. 2245
Halisky, P. M. 2022
Hall, D. H. 365, 389
Hall, K. 1317
Hall, K. J. 3728
Hall, R. J. 4558
Hall, T. C. 13, 2980
Hall, T. J. 1814
Halloin, J. M. 2771
Halperin, W. 1338
Hama, T. 2668
Hamann, U. 3938
Hamaya, E. 3642
Hamdi, N. A. 3467
Hamid, A. H. 1016, 1017, 1018
Hamida, S. 65
Hamil, S. 1097
Hamilton, B. K. 2501
Hamilton, G. A. 2103
Hamm, P. B. 32, 414, 2333, 2890
Hammerschlag, F. A. 1070
Hammerschmidt, R. 1206
Hammond, J. 2920
Hammouda, A. M. 2430
Hampson, M. C. 4976
Hampton, R. 593
Hampton, R. O. 3089, 3090, 4520
Hancock, J. G. 2869
Handa, A. K. 2366
Handoo, M. L. 4672
Hang, L. 3801
Hanker, I. 4669
Hanlin, R. T. 1765
Hannan, R. M. 2225
Hanold, D. 4116
Hanounik, S. B. 3700, 4534
Hansen, A. 4219
Hansen, E. M. 32, 414, 2333, 2890
Hansmann, C. F. 2030
Hanson, J. R. 1819
Hanušová, M. 445
Haque, S. Q. 4089
Hara, H. 4431, 4432
Harada, T. 4327
Harada, Y. 71, 72, 527
Harborne, K. 4323
Harcharan Singh 3711
Harder, D. E. 1006, 1906, 1907, 1908
Hardev Singh 621
Harding, H. 4869
Harding, V. K. 2254
Hardwick, R. C. 796
Harel, E. 4179
Hargitay, L. 1608
Hargreaves, J. A. 4881
Hargreaves, P. A. 3918
Hari Singh 515
Hari, V. 2912
Haring, P. 3267
Hariri, D. 613
Harju, P. 1186
Harley, J. L. 550, 3770, 4136
Harley, K. L. S. 4578
Harman, G. E. 2769, 4516
Harmsen, J. 4213
Harpe, A. C. de la 3603
Harper, D. B. 1097, 4381
Harper, F. R. 2435
Harrer, J. M. 2204
Harrigan, E. K. S. 4963
Harrington, T. C. 4022
Harrington, T. J. 1105
Harris, D. C. 2035, 2046, 3562
Harris, G. M. 1382
Harris, K. F. 4860
Harris, M. A. 3557, 3566
Harris, N. E. 1298
Harris, P. B. 3502
Harris, P. S. 2098
Harris, R. I. 2118, 2620
Harris, R. W. 3083
Harrison, B. D. 89, 935, 969, 1163, 2924, 4970
Harrison, J. G. 1283, 4059
Harrison, M. B. 3554
Harrison, M. D. 1619
Harrison, N. A. 676
Harsh, N. S. K. 393, 2175
Härşian, I. 3267
Hart, P. A. 3754
Harten, A. Van 3624
Hartill, W. F. T. 871, 2191
Hartman, B. J. 3899
Hartman, J. R. 1918
Hartmann, R. W. 465
Hartwig, E. E. 485, 1286, 4542
Harvey, I. C. 1087, 1088, 1412
Hasan, S. 1014
Hasan, S. M. 1407
Hasbullah, M. 1738
Hasegawa, P. M. 2366
Haseloff, J. 729, 1153
Haselwandter, K. 1837
Hasezawa, S. 3750
Hashiba, T. 1955
Hashim, L. O. 1888
Hashimoto, A. 2464
Hasija, S. K. 1386
Hassan, A. A. 1207, 1208, 1209
Hastie, A. C. 2535
Hatfield, J. L. 535
Hatta, T. 2531, 2922
Hattingh, M. J. 2310
Hau, B. 2410, 2427, 4667
Hau, F. C. 4066
Haury, A. 665, 666
Haware, M. P. 502, 816
Hawes, M. C. 2989
Hawkins, J. H. 2618
Hawksworth, F. G. 3294, 5002
Hawling, S. L. 5056
Hawson, M. G. 1583
Hawthorne, B. T. 1132
Hawtin, G. 4530
Hawtin, G. C. 4534
Hayashi, N. 2273
Hayes, A. J. 235
Haygood, R. A. 233
Hayman, D. S. 556, 2265, 2830
Haynes, C. 763
Haynes, D. L. 536
Hayslip, N. C. 2144, 2240
Hayward, A. C. 2259, 3075
He, J. 2538
He, M. 2481
He, X. Z. 4878
He, Y. K. 1500
Heagle, A. S. 2522, 3351, 4073
Heale, J. B. 3607
Heard, A. J. 1544
Heath, I. B. 1396
Heath, M. C. 1396, 2704, 2732, 3335, 5025
Heather, W. A. 772, 1660, 2168, 2176, 2177, 3274, 4016, 4017, 4470
Hebert, T. T. 1398
Hecker, R. J. 3306
Hecq, P. 4200
Hedley, J. 1088
Heftmann, E. 1378
Hegde, R. K. 494, 727, 819, 3857, 4891
Heggestad, H. E. 1414, 1535, 1653
Heidrich-Sobrinho, E. 132
Heim, D. 3508
Hein, A. 2358, 3461
Heinz, D. J. 3963
Heinze, K. 2100
Heitefuss, R. 158, 159, 639, 1003, 1470, 2419, 2498, 2499, 2984, 3880
Hejdánek, S. 437
Hekman, W. 1177
Hellig, K. 777
Hellmann, G. M. 2355, 4637
Helm, H. U. 703, 1098, 2031
Helton, A. W. 451
Hendrix, F. F. 1574, 3564
Hendrix, F. F., Jr. 3573, 4620
Hendrix, J. W. 1363
Henfling, J. W. D. M. 3946
Henis, Y. 64, 867, 905, 963, 1322, 1822, 1829, 2266, 3781
Hennen, J. F. 1065, 2882, 4886
Henning, V. T. 2501
Henninger, M. R. 2125
Henriksen, J. B. 3944
Henríquez C., N. 3872
Henzell, R. G. 178
Heo, N. Y. 146, 3934
Heong, K. L. 2256
Hepper, C. M. 2824, 2832, 4144
Hepperly, P. R. 186
Herath, H. M. W. 723
Hering, T. F. 987
Heritage, A. D. 4963
Hermansen, J. E. 1468
Hermoso de Mendoza, A. 4302
Hernalsteens, J. P. 854, 2140
Hernandez, M. G. 1819
Hernández, N. 747
Herold, H. 3738
Herold, M. 3187
Herr, L. J. 107, 1897, 3059
Herrera L., L. 4304
Hershman, D. E. 1536
Hertelendy, L. 1101
Heslin, M. G. 4028
Hess, W. M. 1434, 2315, 2898, 2899, 3828
Hettige, G. 4195

Heun, M. 1463
Hevesi, L. 1294, 1650
Hevesi, M. 1323
Hewett, P. D. 2979, 3701
Hewings, A. D. 4205
Heye, C. C. 4358
Heyne, E. G. 1430
Hibino, H. 2458, 3517, 3518, 3519, 4682, 4894, 4896
Hickey, K. D. 3112
Hicks, L. C. 3169
Hidalgo, O. A. 1624, 2623
Hide, G. A. 2079, 2080, 2102, 2109, 2110, 2111, 2116, 2615
Hiebert, E. 89, 2355, 3886
Hifni, H. R. 4298
Higashi, T. 2462
Higham, M. T. 926
Highley, T. L. 431, 1248, 4008
Hignett, R. C. 3552, 3570, 3607, 5021
Hijano, E. H. 3900
Hildebrand, D. C. 536
Hildebrand, P. D. 824
Hildenbrand, C. 2318
Hilgenberg, W. 3679
Hill, C. F. 2932
Hill, H. J. 486
Hill, J. H. 477, 1284, 3341, 4063
Hill, J. P. 3847, 4872
Hill, R. A. 3833, 3836
Hill, R. R., Jr. 1016, 1017, 1018, 1188, 3216, 3893, 3899
Hill, S. A. 1459, 3084
Hill, T. C. 4462
Hille, J. 3748
Hillocks, R. J. 3530
Hills, F. J. 2900, 4496
Hillstrand, D. S. 452
Hims, M. J. 4558
Hinch, J. M. 172
Hine, R. B. 2027, 3055
Hingand, L. 3212
Hippe, S. 1397, 4198
Hirano, K. 63
Hirata, S. 224
Hiratsuka, N. 76, 2879, 3275
Hiratsuka, Y. 1224
Hiremath, P. C. 3857
Hirooka, T. 1503
Hirsch, P. R. 2784
Hiryati, A. 177
Hladká, O. 136, 1438
Ho, H. H. 927
Ho, W. C. 1663, 4616
Hobbs, G. 2270
Hobman, F. R. 377
Hocart, M. J. 5011
Hoch, H. C. 2651, 3334, 4170
Hoch, H. D. 3408
Hocking, T. J. 618
Hodges, C. F. 4344
Hodges, C. S. 425, 3668
Hodges, C. S., Jr. 4012
Hoekema, A. 2784
Hoepfner, E. F. 3438
Hoeven, E. P. Van der 3843
Hoffman, J. A. 625
Hoffmann, G. M. 1355, 1904, 2431
Hoffmann, J. A. 2969, 2970
Hofman, A. E. 3426
Hofstra, G. 1086, 2713
Hogarth, B. G. 3774
Högberg, P. 547
Hogenboom, N. G. 3409
Hohl, H. R. 361
Hohn, B. 854
Hohn, T. 854
Hoitink, H. A. J. 2870, 4865
Holdenrieder, O. 3780
Holgate, M. E. 2609, 3636
Holliday, M. J. 1710, 1719
Holliday, P. 84
Holling, C. S. 978
Hollinger, T. C. 3057
Hollings, M. 1408
Hollins, T. W. 3498, 4233, 4234
Hollis, C. A. 1658
Hollomon, D. W. 1471
Holmes, F. W. 402
Holmes, R. J. 4875
Holmes, S. J. I. 1546
Holsters, M. 854
Holt, J. G. 856
Holt, R. A. 3999
Holt, R. F. 1351
Holz, B. 320
Homma, Y. 2491, 2701, 3047, 3048
Honda, Y. 1692, 1935, 3147, 3703, 5044
Hong, R. F. 3277
Honkura, R. 2452, 2453, 2454
Honma, S. 1310
Hood, E. L. 689
Hoog, G. S. de 1949
Hooker, W. J. 2101
Hooley, P. 1817
Hooper, A. J. 4237
Hoover, M. R. 3087
Hooykaas, P. J. J. 854, 2784, 4115
Hopkins, D. L. 671, 2058, 2788
Hoppe, H. H. 4540
Hoque, E. 1234
Horgan, R. 4117
Horiguchi, H. 2719
Horino, O. 658, 4298
Horita, M. 4287
Hornby, D. 4255
Horne, R. W. 4124
Horner, C. E. 32, 1595
Hornok, L. 1066, 3211, 3890
Hornvedt, R. 4780
Horsfall, J. G. 536
Horsman, D. C. 2526
Horst, R. K. 14, 2368
Horvat, F. 511, 835
Horváth, G. 1749
Horváth, J. 599, 2915, 2916, 3390
Hosford, R. M., Jr. 1451
Hosokawa, D. 1842, 1843, 2013
Hosoya, S. 2151
Hossain, M. 4979
Hossain, M. A. 1966
Hossen, S. 4009
Hou, G. D. 4887
Howard, C. M. 280
Howard, F. W. 4408
Howard, R. J. 1269
Howarth, M. J. 3765
Howe, T. K. 2001
Howeler, R. H. 3772, 4155
Howell, C. R. 3056
Howes, N. K. 2317, 2396
Hrouda, M. 2123
Hsieh, H. J. 2873, 4642
Hsieh, K. C. 1639
Hu, G. 2754
Hu, H. T. 1812
Hu, R. L. F. 3314
Huang, A. L. 2154
Huang, C. 4045
Huang, C. M. 2625
Huang, H. 82
Huang, H. C. 4404, 4853
Huang, J. W. 1264, 2146, 3322
Huang, J. X. 4895
Huang, M. C. 1635
Huang, S. Z. 2910
Huang, Z. X. 1504, 4901
Hubbard, J. P. 4516
Hubbell, D. H. 2295
Hubbes, M. 2653, 3272, 4776, 4777
Huber, D. M. 484
Hucl, P. 470, 1281, 1706, 2712
Hudler, G. W. 3286
Huffman, G. A. 1785
Hughes, I. 4325
Hughes, J. T. 874
Hughes, S. J. 74, 685, 2885
Hugouvieux-Cotte-Pattat, N. 3753
Huguenin, B. 1418
Huisman, O. C. 536
Hull, R. 4209
Humble, S. J. 811
Humpherson-Jones, F. M. 2685, 5010, 5011, 5012, 5015
Humphrey, W. A. 427
Humphreys-Jones, D. R. 366
Hung, L. L. 2817, 3766
Hunger, R. M. 32, 1595
Hunnius, W. 2093, 4755
Hunst, P. L. 227, 4062
Hunt, J. 4044
Hunt, J. S. 793
Hunt, R. S. 1246
Hunter, B. B. 4010
Hunter, J. H. 2411
Hunter, L. D. 267, 268
Hunter, R. E. 4999
Hunter, T. 1229
Huppatz, J. L. 1991
Husain, A. 2776, 3608
Husain, S. I. 1043
Husain, S. M. 128
Husin, A. N. 1945
Husmille, F. R. 3966
Hussein, M. M. 4532
Hutchins, A. S. 4448
Huth, W. 1458, 3685
Hutson, R. A. 2145
Hüttermann, A. 1217, 1218
Huttinga, H. 732, 1250, 3625
Huttunen, S. 4026
Hwang, B. K. 158, 159, 639, 2419, 2548, 2984, 3839, 3909
Hyakumachi, M. 1680, 2673, 2677, 2678, 4785
Hyman, L. J. 858, 1186
Hymowitz, T. 4060
Ialongo, M. T. 2252, 4197, 4365, 4368, 4469
Iannelli, D. 4629
Ibenthal, W.-D. 2984
Iboton Singh 2490
Ibrahim, G. 1708
Ibrahim, I. A. 2220
Ibrahim, Y. 2256
Ichitani, T. 2344, 2586, 2587
Idini, G. 1746
Igwegbe, E. C. K. 2917, 3317, 3391
Iida, W. 63
Iitomi, A. 2469
Iizuka, N. 2679, 3361, 4547, 4784
Ikaunietse, L. 1614
Ikegami, H. 2680
Ikegami, M. 598
Ikotun, T. 113
Ilag, L. L. 4926
Il'ina, M. N. 1253
Imbroglini, G. 2060, 2062, 4391
Imperial, J. S. 1153
Imre, K. 3905
Imuro, Y. 2680
Inaba, N. 2936
Inaba, T. 2726
Inamdar, J. A. 1305
Incekara, F. 4429
Ingham, J. L. 962, 1708
Inglis, D. A. 4877
Ingram, D. L. 2000
Ingram, D. S. 13, 441, 442, 4556
Innes, N. L. 796, 1994, 5027, 5028
Inoue, H. 188, 1022, 1935
Inoue, T. 2452, 2453, 2454
Inouye, N. 3888, 4640
Inouye, T. 594
Ionescu, P. 1111
Iordache, L. 3632
Iqbal, S. H. 2300, 2301, 2302, 2303
Iri, M. 2566
Iritani, W. M. 1622
Irving, H. R. 60
Irwin, J. A. G. 2213, 4065, 4933
Irwin, M. E. 5032
Isaac, I. 1390
Isaev, R. F. 2407
Isaka, M. 3191, 3192
Isawa, K. 4921
Isawa, N. 4922
Isaza, L. 4522, 4523, 4524
Ishida, N. 575
Ishiguro, K. 3085
Ishii, M. 2694
Ishizaki, H. 1503, 2420, 4598
Ismail, F. K. 1211
Ismail, I. K. 3811
Ispen, J. D. 403
Ito, T. 1818, 2680, 4899
Itoi, S. 717, 1940, 2457, 3026
Ivanova, N. 711
Ivanyuk, V. G. 610
Iwaki, M. 1692, 3703, 5044
Iwamatsu, H. 657
Iwano, M. 2466, 2467, 2470, 3018, 3019, 3020
Iwasaki, M. 3517
Iwata, M. 657
Iyengar, D. S. 2804
Iyer, V. N. 1787
Izadyar, M. 3025
Izquierdo, F. 4441, 4442
Izumi, S. 3517
Jaarsveld, A. B. Van 4932, 5041
Jackson, A. O. 4209
Jackson, L. F. 641
Jackson, N. 3081
Jackson, R. M. 548
Jacobi, W. R. 3231, 3294
Jacobs, L. A. 2308
Jacobsen, B. J. 5034
Jacqua, G. 4092
Jadhav, K. G. 1724
Jadot, R. 4200
Jaffee, B. A. 265
Jager, G. 1177, 3953
Jahier, J. 4659
Jailloux, F. 327, 4732
Jain, A. C. 33, 4961
Jain, B. L. 2195
Jain, J. C. 429
Jain, K. L. 1020
Jain, M. L. 1696
Jain, P. C. 3445
Jain, R. P. 4285
Jain, S. K. 289, 1413, 1420, 1859, 2585, 3153
Jakobsen, I. 561, 2825, 4842
Jakubiec, J. 2592
Jalajakumari, M. B. 2480
Jamaluddin 3295
James, G. L. 3965
James, J. R. 707, 708
James, R. L. 419, 901
Jamme, M. de la 2638
Janicka, I. 2710, 4055
Janke, C. 3626, 4421
Jankulova, M. 2506
Janos, D. P. 51
János, E. 3221
Janse, J. D. 1223
Jansen, W. J. 5041
Jarikji, O. A. 2380
Jarjees, M. M. 4890
Jarnail Singh 516
Jarrett, R. G. 3266
Jarvis, J. L. 1015
Jarvis, W. R. 2147
Jaspars, E. M. J. 3804
Jat, R. G. 505
Javed, M. 2300
Javed, Z. U. R. 1979, 1981, 3529
Jaworski, C. A. 877
Jayaramaiah, H. 728
Jayasankar, N. P. 348
Jayasinghe, U. 4576
Jayasinghe, W. U. 798
Jaynes, R. A. 398, 3659
Jedlinski, H. 120, 121, 4205
Jeger, M. J. 852, 1870, 2260, 2544, 2957, 3557, 3560, 4254
Jelińska, E. 2436
Jelke, E. 2766
Jellis, G. J. 2112
Jeng, R. S. 3272, 4776, 4777
Jenkins, A. D. 1679
Jenkins, P. D. 4088

Jenkyn, J. F. 150, 1878, 3832
Jenner, L. B. 2213
Jennersten, O. 972
Jennings, D. L. 1117, 2047
Jenniskens, M. J. 2203
Jenns, A. E. 648, 4791
Jepson, P. C. 2676
Jeyarajan, R. 3173, 3174
Jhooty, J. S. 795, 4599
Jiang, D. K. 2132
Jiang, J. 2328
Jiang, X. 2385
Jiang, X. Y. 288
Jiménez-Díaz, R. M. 4678
Jin, K. S. 4296
Jin, Z. 3305
Jindal, J. K. 1728
Joannes, H. 2322
Johansson, M. 3301
John, V. T. 1936
Johns, L. J. 943
Johnson, A. G. 4080
Johnson, A. W. 2991
Johnson, B. R. 1249
Johnson, D. A. 3928
Johnson, G. 381
Johnson, G. I. 377, 2139, 3983
Johnson, J. E. 4211
Johnson, K. B. 4527
Johnson, K. S. 2785
Johnson, R. 3412, 4262
Johnson, S. B. 532
Johnson, W. M. 1055, 1056, 2501, 3882
Johnston, A. 1809, 2263
Johnston, H. W. 2367
Johnston, J. S. 4122
Johnston, R. H. 1473
Johnston, S. A. 1756, 2231
Johnston, W. J. 4340
Johnstone, G. R. 353, 605
Joi, M. B. 5060
Jollands, P. 2937
Jolliffe, P. A. 2644
Jones, A. L. 1100, 1442, 2032, 3107
Jones, A. T. 945, 969, 1114, 1116, 2906, 4349
Jones, B. L. 3708
Jones, C. D. 3819
Jones, D. G. 1870, 2957, 4254
Jones, D. R. 441, 442, 4276
Jones, I. T. 1464
Jones, J. B. 3538, 3656, 3995, 4447, 4572
Jones, J. P. 3656, 4572
Jones, R. A. C. 1845, 2599, 3208
Jones, R. K. 781, 1072, 3678
Jong, C. J. de 2233
Jongklaekha, N. 1782
Jordan, V. W. L. 3503
Jørgensen, J. 1474, 2428, 2429
Jørgensen, J. H. 1468
Joseph, D. 3930
Joseph, P. J. 3930
Joseph, T. 348
Josepovits, Gy. 1795
Joshi, H. C. 1915
Joshi, I. J. 2863, 4452
Joshi, L. K. 3933
Joshi, L. M. 1880
Joshi, R. 38
Joshi, R. D. 1493, 3851
Joshi, S. 4427
Jouan, B. 3212
Juárez, J. 4302, 4303
Juhásová, G. 1652
Julia, J. F. 2076
Jülich, W. 2766
Juntti, N. 1431
Jurchak, T. B. 3996
Juste, C. 3052
Jyoti Singh 1530, 1532, 1553, 2010
Kabakhidze, D. M. 966
Kabeel, M. T. 4306
Kabi, T. 2008
Kable, P. F. 1109
Kacharmazov, V. 4722
Kachhawaha, J. S. 2373
Kadam, V. C. 4249
Kader, A. A. 1108, 4307
Kado, C. I. 854, 4589
Kageyama, K. 802, 809
Kahl, G. 854
Kahler, A. L. 641
Kahn, R. P. 1806
Kairu, G. M. 4308, 4314
Kaiser, W. J. 1402, 2225
Kakishima, M. 3280
Kakralia, O. P. 4552
Kala, S. P. 2878
Kale, K. D. 1019, 1620
Kalfon, A. 4315, 4920
Kalinichenko, G. V. 3567
Kalinichenko, R. I. 3567
Kalode, M. B. 678
Kalonji-M'Buyi 4497
Kalra, J. S. 390
Kalra, S. K. 3145
Kalyan Singh 28
Kalyanasundaram, R. 1820
Kam, M. de 1227, 1230, 3276
Kamachi, T. 717
Kamal 4625, 4626, 4817
Kamala, T. 3609
Kamara, A. M. 778, 779, 1213
Kamble, B. R. 1725
Kamerman, W. 3057
Kameswaran, L. 3763
Kamijo, H. 936
Kamimiya, S. 539
Kaminskyj, S. G. W. 2704, 5025
Kamiunten, H. 2485
Kammen, A. Van 2913, 2918, 4213
Kammereck, R. 3565
Kampert, M. 3291
Kan, J. Van 3748
Kanauchi, M. 3017
Kanbe, K. 272
Kandaswamy, T. K. 3365
Kaneko, S. 76, 2656, 3275
Kang, L. 3646
Kang, M. S. 4904
Kang, S. K. 3985
Kangsen, I. N. 371
Kannaiyan, S. 1036, 1508
Kannan, K. 43
Kano, Y. 4577
Kanwar, R. S. 376
Kanzawa, K. 4495
Kao, C. W. 928, 1302
Kapadia, M. N. 1296
Kaper, J. M. 754, 4438
Kapetanakis, G. E. 3236
Kapkın, A. 1142
Kaplan, I. B. 600
Kaplan, J. D. 3081
Kapoor, S. 3715
Kapoor, T. R. 1041
Kapoor, U. 3349
Kapooria, R. G. 371, 372
Kappelman, A. J., Jr. 213
Kaptás, T. 1143
Kapur, S. P. 204, 667, 2490
Kar, A. K. 915, 916, 917
Kar, R. K. 2008
Karaboz, I. 922
Karáczony, D. 1561
Karadimcheva, B. 1140
Karageorgiev, D. 1093
Karahan, O. 1268
Karan, D. 501
Kararah, M. A. 2578
Karcılıoğlu, A. 1051, 1053, 1986
Kardin, M. K. 249, 4900
Kari, A. 115
Karl, E. 4493
Karmanovskiĭ, V. A. 1175
Karov, S. 634
Karr, A. L. 4936
Karrfalt, R. P. 4478
Kartar Singh 3144
Kartausova, V. A. 2552
Kartel', N. A. 3745
Kartono, G. 4428
Karunakaran, K. 2480
Karve, A. D. 4739
Kasamo, K. 752
Kashman, Y. 3444
Kasim, R. 4395, 4396, 4397
Kasimir, A. 41
Kasper-Barrientos, L. A. 2085
Kaspers, H. 624
Kassaby, F. Y. 769
Kassim bin Ahmad 1393
Kassim, M. Y. 2078, 4851
Kastelein, P. 4965
Kas'yanenko, A. G. 3531
Katagiri, M. 2797
Katan, J. 4911, 4920
Katan, T. 2199, 2699, 3906, 4357, 4938
Kataria, H. R. 908, 2735
Kathariou, S. 78
Katiyar, M. 34
Kato, H. 655, 1944, 2473
Kato, K. 3460
Kato, T. 3013
Katou, K. 2603, 4973
Katsube, T. 2694
Katsuki, S. 584
Katsuya, K. 2434
Katumoto, K. 71
Katz, B. H. 3166
Kauffman, H. E. 1929
Kaur, J. 4599
Kaur, L. 573, 4180
Kauraw, L. P. 1947
Kaushal, R. 4134
Kaushik, C. D. 3181, 3354
Kaushik, J. C. 3181, 3354
Kavanagh, J. A. 1105, 1173, 1176, 1317
Kavanagh, T. 281
Kawai, M. 3048
Kawakita, K. 2752
Kawakubo, Y. 3010
Kawamoto, S. O. 2368
Kawano, K. 4577
Kawano, S. 3853
Kawase, K. 3863
Kays, S. J. 3659
Kazungu, C. 735
Keane, P. J. 88, 2164
Keast, D. 4848
Kedar, N. 3247
Keeler, R. 484
Keeling, B. L. 479, 483, 1286
Keen, N. T. 13, 1710, 1719, 2051, 2844, 3347, 3348, 4351, 4943
Kegler, G. 2914
Kegler, H. 3234
Kellas, J. D. 3266
Keller, T. 3254
Kelley, R. D. 1100
Kelley, W. D. 1669
Kellock, A. W. 3892
Kellock, L. J. 1900
Kelman, A. 3639
Kembel', M. E. 1990
Kemp, J. D. 854
Kempe, J. 4982
Kemuriyama, A. 527
Kendrick, B. 1373
Kenerley, C. M. 4476
Kennedy, B. W. 3704
Kennedy, D. M. 1115, 1125, 3140
Kennedy, M. 4394
Kenney, D. S. 4114
Keon, J. P. R. 4881
Kerlan, C. 3212, 4363
Kern, H. 3238, 3239
Kerr, A. 854, 2265, 3747
Kerr, E. A. 3470
Kerr, E. D. 435
Kertykova, È. Kh. 1987
Kesterke, R. 139
Kettlewell, P. S. 618
Keyes, G. J. 3229
Khalil, J. A. 833
Khalis, N. 222, 4736
Khalisy, M. H. 1240
Khan, A. A. 2113
Khan, H. H. 4407
Khan, M. 3442
Khan, M. A. 3093
Khan, M. W. 3687
Khan, S. R. 771
Khan, T. N. 162
Kharbuli, P. P. 2293
Khare, M. N. 1507
Kharitonova, E. N. 4721
Khatri, H. L. 519
Khatri, R. K. 4961
Khatua, D. C. 1751, 1768, 1961
Khehra, A. S. 1487
Khetarpal, R. K. 3349
Khew, K. L. 338
Khokhlova, A. P. 2417
Khokhryakov, M. K. 537, 965
Khokhryakova, T. M. 965
Khomyakov, M. T. 1159, 1618
Khule, W. B. 3932
Kibirige-Sebunya, I. 3824
Kidby, D. K. 47
Kidd, F. A. 40
Kiefer, M. C. 99
Kiehr-Delhey, M. 2100
Kikkawa, H. 1847
Kile, G. A. 396, 3266
Kilen, T. C. 485
Kim, C. H. 1123, 3912
Kim, C. K. 1030, 1031
Kim, G. P. 2745
Kim, H. J. 3861
Kim, J. H. 3985
Kim, K. C. 1032
Kim, K. S. 2709
Kim, M. S. 3861
Kim, S. B. 1123
Kim, S. C. 3912
Kim, S. H. 196
Kim, S. K. 1910, 2992
Kim, T. S. 2745
Kim, W. K. 2316, 2317, 2396
Kim, W. S. 196
Kim, Y. S. 3861, 4142
Kimati, H. 4224, 4539
Kimball, P. C. 90
Kimbrough, J. W. 771, 2308
Kimigafukuro, T. 2442
Kimpinski, J. 2367
Kimura, J. 4858
King, E. J. 4854
Kingsolver, C. H. 4111, 4835
Kints, T. M. C. Van 4251
Kinzer, H. G. 4482
Kira, M. T. 1194
Király, Z. 1212, 3350
Kirchhoff, J. 2284
Kirilenko, T. S. 3443
Kirk, K. S. 1607
Kirk, P. M. 84
Kirk, S. A. 3117, 4013
Kirk, T. K. 4008
Kishan Singh 375, 2776
Kishko, Ya. G. 20, 4121
Kishore, N. 1798, 1799, 4130
Kishun, R. 1744
Kisimova-Horovitz, L. 347
Kisman, S. 4500
Kiss, A. S. 1777
Kiszczak, E. 3633
Kitajima, E. W. 100, 168, 457, 460, 461
Kittisak, K. 5044
Kiyama, R. 4210
Kiyosawa, S. 536, 1028
Klapwijk, P. M. 854
Klasen, I. 3748
Klassen, W. 4114
Klee, H. J. 1787
Klein, R. E. 354, 4751
Kleinhempel, H. 1095, 2914, 4493
Klement, Z. 1332, 1333, 1577, 4769
Klimek, S. 3480, 3485
Klingman, D. L. 1362
Klingner, A. E. 3389
Klintsare, A. A. 2774
Klisiewicz, J. M. 2067
Kloepper, J. W. 3129, 3214
Klos, E. J. 1102
Kluczewski, S. M. 2682
Kluczyński, B. 3657
Kluge, E. 3948
Kluge, S. 3692
Knauf, V. C. 2063, 2575
Knavel, D. E. 446
Knight, V. H. 3578, 3579
Knight, W. E. 692, 1085
Knights, I. K. 131
Knoche, H. W. 13

Knoke, J. K. 533, 3506, 3507
Knösel, D. 3042, 4043, 4866
Knott, D. R. 129, 3412, 3824, 3825
Knowles, N. R. 1622
Knudsen, G. R. 3286
Knudsen, J. C. N. 161, 1472
Knutson, K. W. 1619
Ko, K. 1821
Ko, N. J. 1064
Ko, W. H. 285, 1663, 4163, 4616
Ko, Y. H. 1289
Kobayashi, A. 4288
Kobayashi, J. 2468, 2471
Kobayashi, K. 1898, 3690
Kobayashi, T. 584, 658, 710, 1939, 3021
Kobayashi, Y. 1821
Kobayasi, Y. 2879
Kobriger, K. M. 3333
Kocabıyık, S. 1268
Koch, B. L. 3438
Koch, E. 4540
Kochhann, R. A. 1445
Kochman, J. K. 3935, 4403
Koczowska, I. 2436
Kodama, F. 2445, 2722, 4562
Kodama, T. 2558, 2559
Kodmelwar, R. V. 818
Koenig, R. 89, 1531, 2011, 3070, 3128, 3208, 3685, 4574
Koga, H. 658, 1939, 3021
Koganezawa, H. 2038
Kohli, A. 1840
Kohn, F. C., Jr. 3564
Kohn, L. M. 914
Köhn, S. 1345
Kohno, M. 9, 4598
Koike, H. 740, 3958, 3959
Koike, K. 1955
Koizumi, M. 3865, 3867
Kojima, M. 2089, 2752, 3310, 3794
Kokko, E. G. 4853
Kokko, M. 4670
Kolattukudy, P. E. 1694, 4515
Kolbe, W. 686, 702, 712, 787, 2033, 2285, 2387, 2557, 3106, 3116
Kölber, M. 1661
Kolbezen, M. J. 875
Kolesnikova, A. F. 3575, 4720
Kolhe, A. K. 4249
Köller, W. 1694, 4515
Kollmorgen, J. F. 2412
Kolodkova, N. M. 25
Komagata, K. 3752
Komatsu, M. 3384
Kommedahl, T. 4114
Konate, G. 1633
Konde, B. K. 1019
Kondo, N. 782, 783, 1681, 3690
Kondo, Y. 3014
Kondratenko, E. V. 1054
Konev, S. V. 1374
Kononkov, P. F. 1644
Kononova, G. A. 368, 1180
Kontaxis, D. G. 3066
Kopec, D. M. 2022
Kopeliovitch, E. 2642, 4443, 4992
Koponen, H. 2582
Kopp, M. 1633, 2628
Kopylova, N. I. 2552
Kore, S. S. 832, 2743, 4804
Kormanik, P. P. 2814
Kornilov, V. G. 2670
Kornkamhaeng, P. 4370
Koroleva, I. B. 4273
Koroleva, O. V. 4166
Korona, A. 2436
Kosenkov, I. I. 958
Koshkelova, E. N. 2877
Koske, R. E. 54, 2305
Košner, J. 1884
Koster, A. T. J. 3057
Kostin, N. P. 1159
Kostitsyn, V. V. 240
Kostova, D. 3392
Kosuge, T. 4592
Kothari, I. L. 1754, 3395
Kotova, V. V. 1271, 3689
Kotwal, I. 33
Kotwal, S. 2493
Kotzé, J. M. 2440, 3586, 3587, 3588, 3590, 4855, 4944, 4945, 4954
Kough, J. 3767
Koul, A. K. 1532, 2010
Kovac, V. 4733
Kovacs, A. I. 163
Kovács, M. 2714
Kovalenko, A. G. 4417
Kövics, G. 1287
Kowalska, A. 3621
Kowalski, T. 422, 1219, 4015, 4485
Kozitskiĭ, Yu. N. 3535
Kozloff, L. M. 1336
Kozlov, Y. V. 4208
Kozub, G. C. 4757
Kraeva, G. V. 4273
Kraft, J. M. 453, 1272, 1695
Krake, L. R. 1134, 3600
Kralev, N. 3881
Kramer, C. L. 3484
Kramer, S. 4374
Kranz, J. 2422, 2427, 3840, 3841, 4419, 4420, 4667
Krarup H., A. 4052
Krass, C. J. 3662
Krátká, J. 696
Kraus, J. F. 3293
Kraus, P. 2061, 2955
Krause, C. 3128
Krebill, R. G. 5002
Kredics, L. 1646, 1647
Krekling, T. 789
Kress, L. W. 1654
Krexner, R. 3307
Krieg, W. 4866
Krijt, J. 606
Krikun, J. 2231, 2610, 3325, 3771, 4047, 4849
Krishna, A. 1891
Krishna, K. R. 563, 2306
Krishna, R. 3733
Krishnamurthi, M. 740
Krishnasamy, V. 3173
Kristiansen, B. 2773
Kritzman, G. 4083, 5057
Krivchenko, V. I. 2381, 2383, 4498, 4786
Krizek, D. T. 2516
Krol, P. J. 1417
Kröll, J. 934, 3652
Kronland, W. C. 434, 1679
Kropp, B. R. 2816
Kr"steva, D. 3976, 3981
Krueger, H. R. 278
Krüger, G. 367, 4707
Krüger, W. 2186, 3821
Krupinsky, J. M. 1836, 2161
Kruzhilin, A.s. 2949
Kryczyński, S. 2905, 3621
Kryukova, E. A. 405
Krywienczyk, J. 1235
Krzan, Z. 407, 410, 411
K"rzhin, Kh. 2397
Ku, T. Y. 4688
Kubicek, C. P. 2854, 2859
Kubitzki, K. 2766
Kubo, S. 753, 3460
Kubo, Y. 575, 1263
Kubomura, Y. 717
Kuć, J. 446, 1206, 1691, 2939, 4791
Kuć, J. A. 3946
Kucey, R. M. N. 4152, 4154
Kuczyńska, J. 3635
Kůdela, V. 468, 696, 1335
Kůdelová, A. 4669
Kudryavtseva, K. I. 1265
Kueh, T. K. 338, 1145, 2948, 3009, 3045, 3171
Kuhara, S. 3867
Kuhlman, E. G. 416, 589, 1243
Kuhn, C. W. 3375
Kuhn, G. B. 100, 3159, 3922
Kuhn, H.-J. 3327
Kühne, T. 3463
Kühnel, W. 4801
Kuiper, H. J. 1901, 4263
Kujáni, L. 1601
Kükedi, E. 990, 1443
Kukpriyanova, V. K. 4227
Kulik, M. M. 481, 2444
Kulinich, A. V. 3535
Kulkarni, G. K. 727
Kulkarni, J. H. 1790
Kulkarni, R. K. 767, 4460, 4461
Kulkarni, R. N. 1331, 2966
Kulkarni, S. 344, 728, 1233, 2169
Kulshreshtha, K. 3542
Kumacheva, E. M. 966
Kumagai, T. 2839
Kumar, B. P. 2153
Kumar, J. 816, 837
Kumar, K. A. 4285
Kumar, P. 4625
Kumar, R. 1672
Kumar, S. 2056, 4738
Kumar, V. 173, 3456, 3653
Kumaraswamy, S. 744
Kumari, V. 501
Kummert, J. 4497
Kundu, R. K. 902
Küng, M. 324
Kunimoto, R. K. 285, 1663
Kuninaga, S. 2334, 2335, 4608
Kunoh, H. 9, 1503, 2420, 4598
Kunze, L. 3128
Kuparashvili, O. G. 315
Kupka, J. 2852
Kurantz, M. J. 4975
Kurosaki, F. 2194
Kurowski, T. 3504
Kurozawa, C. 3991, 3997
Kurtseva, A. F. 4681
Kurucz, E. 1122
Kusaba, T. 3080
Kuschke, E. 3588
Kusenkova, E. 1686
Kushalappa, A. C. 1978, 1980
Kusonoki, M. 2344
Kustova, A. I. 1374
Kutova, I. 3984
Kuwata, H. 2455, 2456
Kuwite, C. A. 815
Kuznetsova, L. L. 4212
Kwok, O. C. H. 3336
Kwon, H. J. 1463
Kyriakopoulou, P. E. 590
Kyriakou, A. 1855
La, Y. J. 4581
Laat, A. M. M. de 4985, 4986
Labonne, G. 595, 1261
Lacey, J. 11, 2392, 3833, 3836
Lackner, A. J. 4477
Lacouture, J. 306
Lacy, G. H. 275, 1571, 2777, 2778
Lacy, M. L. 825, 1310, 1747, 2188, 4565
Ladera, P. 520
Ladygina, M. E. 2138
Lafon, R. 321, 330, 3601
Lahlou, H. 2337
Lahman, L. K. 1619
Lai, M. 2155
Laine, K. 4026
Lakshmi, K. V. J. 3514
Lal, B. 1538, 1539, 3065, 3067, 3152
Lal, S. 1485, 1491
Lal, T. B. 4069
Lallmahomed, G. M. 4102
Lam, A. 1079, 2525, 4341, 4342, 4343
Lam, J. 2287
Lam-Sánchez, A. 490
Lamarque, C. 2583, 4400, 4402
Lambat, A. K. 3349, 3932
Lambe, R. C. 4488
Lambert, C. 2545
Lambert, P. A. 2272
Lamberti, F. 4834
Lambeth, V. N. 2632
Lamers, J. G. 3843
Lamm, V. 3780
Lana, A. F. 3103
Lance, C. 3495
Lande, H. L. Van de 4984
Landolt, W. 3257
Landsberg, G. S. 364
Landsberg, J. 3663
Lang, K. J. 4485
Langdon, P. W. 2213
Lange, E. 3911
Lange, L. 4620
Langenberg, W. G. 124, 435, 932, 933
Langerfeld, E. 2612
Lanjewar, R. D. 678
Lantero, E. 725
Lanzová, J. 432
Lapchik, L. G. 4212
Lapierre, H. 613
Lapis, D. B. 1928, 1929
Lapwood, D. H. 2079, 2109, 2118, 2620, 4980, 4981
Largent, D. L. 2292, 2309
Larroque, N. 683
Larsen, M. J. 4008
Larsen, P. O. 3546
Larue, P. 2271
Lasa, C. I. 2936, 3388
Last, F. T. 4606
Lastra, R. 520, 4382, 4415
László, E. M. 1718
Laterrot, H. 3674, 3994
Latham, A. J. 2166
Latorre, B. A. 379, 3226, 3594
Latterell, F. M. 4885
Lauffer, M. A. 94, 2909
Laughlin, J. C. 2577
Laurence, J. A. 1280
Lauritis, J. A. 1228
Laursen, G. A. 1772
Laville, E. 3050, 3126
Laviolette, F. A. 2210, 5036
Lawrence, J. S. 2374, 2375
Lawson, R. H. 3083
Laxminarayana, P. 1044
Lazarev, A. M. 1184
Lazarovits, G. 812, 1288
Lea, J. 4456
Leach, C. M. 535, 824
Leach, J. 2443, 3848
Leach, J. E. 2622, 3607
Leach, S. S. 1617, 3954
Leal, J. A. 4171
Leandri, A. 2060, 2062, 4391
Leary, J. V. 3416
Leath, K. T. 3549, 3899, 4348, 4928
Leath, S. 1712, 3509
Leaver, C. J. 2996
Lebeau, J. B. 4670
Lebeda, A. 468, 3381, 3721
Lebedeva, T. V. 2408, 4661, 4662
Leben, C. 4049
Leben, S. 1439
Leclant, F. 595
Lecomte, P. 2271
Lecoq, H. 3674, 4793, 5023
Ledneva, V. A. 3224
Lee, B. S. 2050, 2256
Lee, C.-S. 745
Lee, C. U. 2614
Lee, D. K. 3861
Lee, F. N. 3860, 4906
Lee, I. H. 1150
Lee, J. D. 1205
Lee, J. Y. 1289
Lee, K. J. 2291, 4142
Lee, M. W. 2321
Lee, R. 593
Lee, R. F. 1341, 1513, 1967
Lee, S. C. 1030, 2460, 3023, 3934, 4296
Lee, S. S. 395
Lee, S. T. 882
Lee, T. C. 295, 296, 1515, 3914, 4941
Lee, Y. N. 24
Lee, Y. S. 2548, 3909
Leemans, J. 854, 2140
Leeuw, G. T. N. de 4217
Lefeuvre, M. 2545
Legg, B. J. 3819
Legg, P. R. 2079, 4980
Legin, R. 4730

Legrand, G. 261
Legrand, M. 2627
Lehmann, W. 3454
Lehrer, G. F. 1671
Leiser, R.-M. 2099, 4208
Leite, N. 1506
Lelyveld, L. J. Van 718
Lemaire, J. M. 2502, 3491
Lenna, P. Di 428, 4822, 4964
Lennard, J. H. 1900, 2616
Lenné, J. M. 697
Lennon, E. A. 1433, 1543
Lent, J. W. M. Van 3008
Lento, G. 3061
Lenz, F. 4370
Lenzi, R. 4987
León Gallegos, H. M. 1391, 1392
Leonard, K. J. 648
Leone, I. A. 964
Leong, S. A. 16
Lepoivre, P. 4512
Leroux, P. 321, 3421, 3422, 3424
Lesemann, D.-E. 2011, 3070, 3361, 3685, 4867
Lespinasse, Y. 3558
Lessie, T. G. 23, 24
Lester, E. 4583
Letchworth, M. B. 3351, 4073
Letham, D. S. 4837
Leu, L. S. 928, 1139, 1198, 1199, 1302, 2133, 2249, 4324
Levi, E. 4664
Lević, J. 650
Levick, D. R. 2188
Levine, R. G. 4928
Levy, Y. 1815, 2997, 4676
Lewellen, R. T. 3309
Lewin, H. D. 3195, 3196, 3197, 3199
Lewis, B. G. 3316
Lewis, D. H. 1837, 4882
Lewis, G. C. 1079, 1544, 2525
Lewis, J. A. 212, 3418, 4114
Lewis, S. A. 3345
Lewis, S. J. 4230
Lewosz, W. 3638
Ley, J. de 690
Leyns, F. 690
Li, B. 2071
Li, C. Y. 4448
Li, D. 820
Li, F. 2403
Li, G. 2542, 2691
Li, G. C. 1925
Li, J. 3878
Li, K. L. 4878
Li, S. Y. 1023, 3516
Li, X. R. 4685
Li, Z. Y. 4559
Liang, P.-Y. 101
Liang, Z. 3511
Liao, C. H. 2248
Liao, J. 2538
Liao, Y. M. 3034
Liberta, A. E. 2827
Lichkov, A. 2597
Lider, L. A. 3156
Lidster, P. D. 1096, 1567
Liem, J. I. 67, 3240
Lifshitz, R. 2869
Lim, G. 918, 1256, 1861, 2880
Lim, S. M. 4809, 5033
Lim, T. K. 4701, 4812
Lim, T. M. 2128, 2256
Lima, D. M. M. 2150
Limaye, V. P. 2643
Limpert, E. 1465
Lin, D. 1224
Lin, J. J. 607
Lin, J. Y. 189
Lin, M. T. 100, 457, 460, 461, 3341
Lin, P. H. 4598
Lin, Q. 2459
Lin, S. S. 475
Lin, Y. S. 498
Lin, Z. F. 147
Linardakis, D. C. 3236
Linderman, R. G. 3299, 3767
Lindo, L. de 2122
Lindow, S. E. 2780, 3453
Lindsten, B. 1431
Lindsten, K. 1431
Line, R. F. 1889
Linfield, C. A. 1999, 2944
Ling, K. C. 89, 1024, 1025
Linkins, A. E. 1811
Lio, G. M. di S. 2242, 3151
Lipatova, N. N. 2961
Lipkes, M. I. 25
Lippincott, B. B. 538
Lippincott, J. A. 538, 3746
Lipps, P. E. 1897, 1917
Lisa, V. 89, 4638, 5023
Lisker, N. 627, 4910
Lister, R. M. 478, 689, 2920
Litchfield, R. T. 4847
Littlejohn, I. H. 5050
Litvinchuk, O. A. 25
Liu, C. 1198, 1199
Liu, C.-Y. 231
Liu, F. 3904
Liu, H. Y. 3808, 3809
Liu, L.-J. 373
Liu, M. E. 1639
Liu, M. Xie, S. 2403
Liu, Q. 2542, 2753
Liu, X. 2327, 3643
Liu, X. J. 2884
Liu, X. Y. 122
Liu, Y. 2070, 4406
Livingston, C. H. 354, 4751
Livingston, R. S. 4173
Livingston, W. H. 4482
Liyanage, A. de S. 4423
Ljungquist, P. O. 4137
Llacer, G. 262
Lo, X. 2481
Lobanok, E. V. 3745
Lobregeat, C. 4400
Locatelli, E. A. 3466
Loch, L. D. 282
Löcher, F. 3373
Lock, W. 420
Lockhart, B. 3070
Lockhart, B. E. L. 1690
Lockwood, J. L. 811, 1449
Lodge, J. S. 17
Lodha, P. C. 1523
Loebenstein, B. 2096
Loebenstein, G. 2011, 2137, 4632, 4765
Loegering, W. Q. 691
Logan, C. 1161, 2081, 4979
Lokendra Singh 2514, 4326
Lokhande, S. B. 4249
Lomas, J. 2607
Lommel, S. A. 681, 2005
Loneragan, J. F. 1554, 1555
Long, D. L. 1881
Long, R. D. 2594
Longo, B. N. 2172, 2665
Longo, N. 2172, 2336, 2665
Lonsdale, D. 2646
Loon, L. C. Van 3223, 4985, 4986
Lopatin, V. M. 985
Lopes, C. A. 443, 455
Lopes, M. C. 2874, 2875
Lopez Valbuena, R. 4405
Lorbeer, J. W. 2230, 3382, 4557
Lorenc-Plucińska, G. 3669
Lorenz, D. H. 318, 2572
Lorenz, G. 322
Lorenzini, G. 2170, 3068, 4319
Loreto, F. L. 1762
Loria, R. 1442
Lossois, P. 3052
Lotstein, R. J. 4990
Lotter, H. 3780
Lougheed, E. C. 1567, 3119, 4501
Louie, R. 533, 3506, 3507
Lourd, M. 1418
Louro, D. 4771
Louvet, J. 730, 1862
Lovisolo, O. 2805, 4638
Low, J. D. 2646
Lowe, D. A. 3762
Lowe, R. 858, 1185, 1186, 2119
Lowe, S. K. 1570
Lozano, J. C. 3398, 4490, 4576
Lozoya-Saldana, H. 592
Lu, D. J. 3252
Lu, J. X. 4978
Lu, M. 4037
Lu, S. T. 1639
Lu, X. X. 1674
Lu, Y. C. 2248
Lu, Y. J. 1674
Lu, Z. X. 4035, 4036
Luard, E. J. 569
Lucas, J. A. 131, 855, 2682
Lucas, L. T. 4337
Lucas, M. T. 2874, 2875
Lucas, P. 612, 3491
Lüdders, P. 703, 1098, 2031
Ludwig, A. 1978, 1980
Lugauskas, A. U. 577
Luginbuehl, M. 4657
Lugosi, G. 878
Luig, N. H. 845
Luisetti, J. 3094, 3127
Luisi, N. 4692
Luisoni, E. 192, 1482, 1542
Luizzi, D. V. 2964
Lukács, P. 1381
Lukezic, F. L. 3996, 4928
Lumbroso, E. 637
Lumsden, R. D. 580
Lund, B. M. 2120
Lunina, N. A. 4208
Luo, D. 2538
Luo, K. 3755
Luo, X. 3801
Luo, X. H. 2910
Lurquin, P. F. 2218
Lute, M. 1336
Luttrell, E. S. 1477
Lutze, G. 979
Luz, E. D. M. N. 112, 976, 2374, 2375
Luz, W. C. da 164
Lyapikhova, A. A. 4714
Lyda, S. D. 543
Lynch, J. M. 2388, 4615
Lyon, G. D. 864
Lyr, H. 362, 4131
Lyskova, T. I. 1374
Maag, W. 4409
Maat, D. Z. 732, 1250, 2908
Mabbett, T. 3957
McCain, A. H. 681, 2005, 3066, 3071
McCain, J. W. 2882, 4886
McCalmont, D. C. 2121, 3629
McCarter, S. M. 392, 3995, 4446, 4447
McCarthy, D. A. 4991
McCartney, H. A. 2426
McCartney, H. A. M. 3819
McCawley, P. 949
Macchia, M. 3760
McCool, P. M. 891, 4149
McCoy, R. E. 345, 1156, 2072, 3064, 3417, 3712
McCracken, A. R. 961, 1858, 3563
McCrae, S. I. 906
McDonald, D. 2789, 3352, 3374, 4551
MacDonald, D. M. 2104
McDonald, G. I. 1668
MacDonald, J. D. 427, 3077
MacDonald, W. L. 763, 2651
McFadden, J. J. P. 4214
McFarland, J. E. 4209
Macfarlane, I. 4042
McFaul, S. J. 2501
Macfoy, C. A. 61
McGann, L. R. 4997
McGeary, F. M. 2535
McGee, E. E. M. 1837
McGimpsey, H. C. 1001, 3501
McGlohon, N. E. 1557
McGowan, V. F. 911
McGregor, A. J. 1869, 3475
McGuire, J. M. 1403, 2692
Machado, P. R. 1034
Machtmes, R. 144, 633
McIntosh, A. H. 2618, 4042
McIntosh, R. A. 2259
McKay, H. M. 4138
McKay, M. E. 4325
McKenzie, D. 4953
McKenzie, E. H. C. 2326
McKenzie, F. 4183
MacKenzie, I. A. 2783
Mackenzie, K. A. D. 2046
McKersie, B. D. 1281, 2712
Macko, V. 2318, 3408
McKyes, E. 4051
McLaren, N. N. 5042
McLaughlin, M. R. 4927
McLaughlin, R. J. 3324, 5024
Maclean, D. J. 571
McLean, G. D. 786, 2531, 2537, 4859
McMorran, J. P. 229, 3466, 3550, 4750
McMullen, M. P. 3783
McMurtrey, J. E., III 3899
MacNab, A. A. 3244, 3996
McNabb, H. S., Jr. 2297
Macnair, M. R. 4329, 4330
McNamara, D. 1235
McNeal, B. L. 3490
McNeel, D. J. 767, 4460
McNeil, M. 3339
MacQuarrie, J. 4712
McRae, C. F. 4963
McRae, K. B. 4976
Macris, B. J. 570
McRitchie, J. J. 2018
McShane, M. S. 4872
McVey, D. V. 2963
Madan, M. 1384
Madan, V. K. 3973
Madane, N. P. 2448
Madar, Z. 3672
Madden, L. V. 533, 3244, 3506, 3507, 4865, 5016
Maden, S. 1268, 4399
Madhoolika Singh 2229
Madjid, A. 1310
Madkour, M. A. 1121
Madsen, J. P. 4344
Maeda, T. 3888, 4640
Magalhães, A. A. de 2205
Magarey, P. 4959
Mâge, F. 4359
Magnolato, D. 2202
Magnus, H. A. 116
Magro, P. 428, 4822, 4964
Mahanta, I. C. 4905
Maher, E. A. 3639
Maheshwari, S. K. 795, 1948
Mahmood, K. 680, 1407
Mahmood, T. 2302
Mahmoud, S. A. Z. 2619
Maholay, M. N. 4797
Mahor, R. 2576
Mai, W. F. 265
Maĭko, I. I. 25
Main, C. E. 3231
Mainland, C. M. 896
Mainolfi, P. 1623, 2808
Maison, P. 4363, 4719
Maithia, A. S. K. 4310, 4311
Maiti, S. 2211
Majorana, G. 4085
Makariev, Z. 3553
Makepeace, P. 869
Makhmudov, K. 1054
Makino, T. 1783, 4762
Makkouk, K. M. 2380, 2907, 3685
Makovcová, O. 445
Maksimova, N. I. 169
Malaguti, G. 4649
Malajczuk, N. 888, 3767, 4009, 4847
Malathrakis, N. E. 2320, 2946, 3236
Malaviya, N. 4624
Malcolmson, J. F. 1174
Malec, K. 3951
Malewski, W. 713
Mali, J. B. 5060
Malik, M. A. 1974
Malik, S. S. 1963
Malin, E. M. 4529
Malinovskaya, L. P. 4215
Malinski, K. 623
Malone, J. P. 1001

Maloy, O. C. 4877
Maltese, C. E. 1817
Malyshenko, S. I. 600, 601
Mamikonyan, T. O. 406
Mamula, Đ. 4335
Manap, A. A. 395
Mancini, G. 1138, 3920
Mandahar, C. L. 4226
Mandal, N. 4317
Mang, K. 2025, 2731, 3548, 3691
Mangini, A. C. 4482
Mani, K. 3198
Manian, S. 1954
Manibhushanrao, K. 201, 1954
Manji, B. T. 3572, 4367
Manjunath, A. 57
Mańka, M. 4653
Mankarios, A. T. 466
Manners, J. M. 571
Mannerucci, G. 3760
Manninger, I. 2998
Manoharachary, C. 222, 2342, 2654, 4736
Manoliu, A. 2888
Mansencal, C. 334, 335
Manser, P. D. 3141
Mansfield, J. W. 35, 644
Mansfield, T. A. 3082
Mansour, A. 3235
Mantell, S. H. 4089
Manulis, S. 3444
Manzer, F. E. 356
Marais, P. G. 3603
Maramba, P. 2362, 3709
Marani, F. 4034, 4700, 4723
Marasas, W. F. O. 4025
Marbach, I. 4179
Marcelle, R. D. 876
Marchal, J. 3052
Marchetti, M. A. 3030, 3854, 4293
Marchetti, R. 333
Marchoux, G. 3674, 4090, 4333
Marciano, P. 428, 2262, 4822, 4964
Marcinkowska, J. 1695
Marco, G. M. 672, 5061
Marco, S. 2087, 2088, 2095
Marcus, R. 4301
Marenge, E. T. 2220
Margossian, A. 308
Margot, P. 4953
Marian, S. E. 3725, 3726, 5056
Mariappan, V. 1024, 4894, 4897, 4898, 4907
Mariau, D. 2076
Marinesco, O. 4316
Mariotto, P. R. 1048, 1721
Markham, K. R. 962
Markham, P. G. 2520, 3936
Markova, J. 4235
Marković, Ž. 757
Marks, G. C. 760, 769
Marlowe, A. 509
Mărmureanu, M. 2573
Marois, J. J. 1756, 2867, 4508
Maronek, D. M. 1363
Maroquin, C. 261
Marose, B. H. 5066
Marousky, F. J. 687, 2017
Marquis, L. Y. 1695
Marras, F. 1746, 4772
Marrero González, H. 803
Marsh, L. M. 2953
Marshall, D. R. 4274
Marshall, D. S. 463
Marshall, E. 4108
Marta, L. 4316
Martelli, G. P. 1319, 1405, 2904, 2928, 4702, 4727, 4743, 4792
Martens, J. W. 983, 1007
Martensen, A. N. 2536
Martin, C. 724, 3242
Martin, F. 2818, 4165
Martin, J. M. 631
Martin, N. E. 4481
Martin, R. A. 544
Martin, R. R. 1226
Martin, S. B., Jr. 4337
Martin, T. J. 1899, 2447
Martínez, C. 1983
Martínez G., A. 3873
Martinez-Gonzalez, J. M. S. 2963
Martinez-Lopez, G. 345
Martínez, P. 4322
Martino, A. De 1664
Martinyuk, A. T. 988
Márton, G. 2048
Marton, K. 4357
Marton, L. 607
Martyn, R. D. 3324, 5024
Marucci, P. E. 4940
Marx, D. H. 4139, 4141
Mary, C. A. 2480
Marzhina, L. A. 449
Marziano, F. 3883, 4629
Mas, P. 1321, 3393, 4570
Masago, H. 928
Masche, I. M. 2030
Maschio, L. M. de A. 2149
Masdiar, B. 2442
Masera, O. 3130
Mashkovskiĭ, N. N. 4376
Mashoor, W. A. 2619
Maslenkova, L. I. 3513
Mason, P. A. 4606
Masoni, A. 3760
Massalski, P. R. 2528
Massonie, G. 4363, 4719
Mathai, G. 1930
Mathar, A. S. 3180, 3196, 3197, 3199
Mathew, A. V. 2029
Mathew, J. 1758
Mathur, A. K. 1730, 4802
Mathur, A. S. 3195
Mathur, S. 572, 2581
Mathur, S. B. 3790, 4398
Mathur, S. C. 1029, 1959, 3523
Mathur, S. M. 1483
Mathys, G. 300, 4601, 4602
Matsui, C. 1847, 3750
Matsumoto, K. 2464
Matsumoto, N. 588, 1825, 2524, 4336
Matsuo, N. 2273
Matsuoka, S. 1626
Matsuzaki, M. 2239
Matta, A. 4639
Matteoni, J. A. 3468
Matthee, F. N. 3099
Matthews, D. E. 4167
Matthews, G. A. 1839
Matthews, P. 4323, 4509
Matthews, P. S. 3779
Matthieu, J. L. 510
Matthysse, A. G. 2267, 3749
Matuo, T. 716
Matus, V. K. 1374
Matveeva, G. V. 4675
Matyshevskaya, M. S. 25
Maude, R. B. 514, 5012, 5019, 5054, 5055
Maule, A. J. 3496
Maurin, G. 2569
Mavrich, E. 3164
Mavrich, E. G. 3389
Mayama, S. 642
Mayee, C. D. 503, 751, 1496, 1722, 1921, 2598
Mayer, A. M. 4179
Mayer, R. J. 1447
Mayhew, D. E. 2005
Mayo, M. A. 536, 945, 946, 969, 1114, 1163, 1853, 3227, 4349
Mazars, C. 4268, 4269, 4270
Mazyad, H. M. 1207, 1208, 1209
Mazzini, F. 3028
Mazzucchi, U. 383, 493, 1623, 2621, 2779, 3956
Mbaye, A. 1793
Mbaye, A. A. 1793
Meah, M. B. 1468
Mebalds, M. I. 3892
Medhane, N. S. 298
Medve, R. J. 4148
Meer, J. Van der 2913
Meer, Q. P. Van der 1318
Mehan, V. K. 4814
Meheriuk, M. 1096
Mehrotra, B. S. 2175
Mehrotra, R. S. 1559, 1560, 1951, 2057, 2198, 2224, 4552, 4715, 4798, 4818, 4819, 4820
Mehrotra, S. C. 4236
Mehta, B. K. 4824
Mei, Z. B. 4887
Meier, D. 4043
Meier-Dinkel, A. 1531
Meijer, J. W. 67
Meijneke, C. A. R. 1344
Meins, F., Jr. 854
Meister, B. 3500
Melching, J. S. 1489, 4111, 4835
Melero, J. M. 339
Melkania, N. P. 1915
Mellinger, H. C. 3543
Mello, S. S. 1626
Meloche, R. B. 2147
Melouk, H. A. 3362, 4067, 5040
Mena, H. A. 179
Mendgen, K. 3742
Mendoza, E. M. T. 4926
Mendoza, M. 1912
Menéndez, R. A. 3122
Menge, J. A. 58, 557, 891, 2831, 4149
Mercer, P. C. 960, 1001, 3117, 3501, 4013
Meredith, C. P. 3156
Merlo, D. J. 13
Merrien, P. 629
Merrill, W. 2658
Merriman, P. R. 826
Mertens, P. 3261, 3262
Merwe, L. P. Van der 5042
Merwe, P. J. A. Van der 5042
Meshi, T. 4210
Mespel, G. J. Van der 4377
Messager, A. 3491
Messinger, R. 3672
Metcalfe, D. R. 1460
Metlitskii, L. V. 4494
Metreveli, T. G. 1440
Metz, S. G. 1473
Meulemans, M. 3261, 3262, 3263
Mevarech, M. 4630
Mew, T. 4894
Mew, T. W. 1960
Meyer, H. K. 3963
Meyer, J. 4043
Meyer, J. A. 3556
Meyer, S. 1720
Miah, S. A. 1958, 1966, 3524
Michail, S. H. 1067, 1078, 1121, 4724
Michalski, R. S. 3702
Michel, L. J. 2987
Micheli, G. 384
Michelmore, R. W. 507, 2232, 2450, 4556
Midland, S. L. 2051
Mielke, H. 141, 3817
Mielke, M. E. 763, 4482
Miglavs, U. 1613
Mignani, I. L. 3120
Mihail, J. D. 66
Mihajlovic, D. 312
Mijušković, M. 4459
Mikhaĭlina, N. I. 1446
Mikhaĭlova, L. A. 1440, 2400
Mikhailova, P. 1860
Milbrath, G. M. 277, 340
Milholland, R. D. 714, 1581, 3132
Miličić, D. 4335
Millar, A. A. 2205
Miller, A. 5008, 5018, 5020, 5027, 5028, 5048, 5052
Miller, C. E. 4620
Miller, D. D. 2305
Miller, F. R. 3850
Miller, J. D. 1439, 2398, 2399, 3093
Miller, J. W. 1977, 3543, 3656
Miller-Jones, D. N. 2098
Miller, M. E. 3386
Miller, O. K., Jr. 2820
Miller, R. E. 776
Miller, S. R. 3119
Miller, S. S. 3105
Miller, T. 2664
Miller, T. L. 2530
Miller, W. A. 13, 491, 2725, 2980, 3344
Miller, W. G. 403
Miller-Weeks, M. 3667
Millikan, D. F. 704
Millou, J. 309
Mills, D. 866
Mills, J. T. 2189, 2770, 5009
Mills, L. J. 2440
Mills, P. 945
Milne, R. G. 89, 192, 1081, 1482, 1542
Milton, J. M. 254
Miltyn'sh, G. 1562
Min, K. H. 4899
Minchin, P. N. 4265
Minervini, G. 301
Mink, G. I. 1846, 2039
Minkevich, I. I. 104, 953
Minsavage, G. V. 4127
Minter, D. W. 586, 4195
Minton, E. B. 212, 1984
Minton, N. A. 3230
Mircetich, S. M. 1228
Mirkova, E. 1389, 4321, 4698
Miroshnichenko, N. A. 4764
Misaghi, I. J. 2775, 3055
Misato, T. 1821, 2265, 2491, 2701, 2787, 3047, 3048
Mishima, T. 3026
Mishra, A. 4705
Mishra, A. N. 1699, 4803
Mishra, A. S. 3445
Mishra, D. 3858
Mishra, D. P. 1735
Mishra, R. R. 45, 2293, 2864, 3253
Mishra, S. 55
Mishra, S. H. 4134
Misko, L. A. 1073
Misra, A. K. 1959, 3523
Misra, D. P. 1299, 2228, 4912
Misra, N. 1596
Misra, S. R. 375
Mitchell, A. G. 2646
Mitchell, C. A. 3351, 4073
Mitchell, P. 826
Mitchell, R. E. 3754, 4122, 4839
Mitra, S. 2804
Mitsuhashi, H. 1681
Mitsuhata, K. 3888
Mittal, R. K. 2669, 4778
Miyagi, Y. 1503
Miyahara, K. 2239
Miyajima, K. 646
Miyata, Y. 4160, 4161
Mize, C. W. 2297
Mligo, J. K. 2220
Mock, R. G. 3640
Modawi, R. S. 1430
Moede, J. 3943
Moesta, P. 482
Moffat, J. E. 4670
Mogen, B. D. 3845
Moghe, S. V. 2226
Mogilaiah, K. 3758
Mogle, T. R. 1496
Mohamed, H. A. R. 4531
Mohamed, N. A. 729, 1153
Mohamed, S. E. 1148
Mohamed, S. H. 1149
Mohammad, H. Y. 1043
Mohan, J. 2695
Mohan, M. 1202
Mohanan, C. 768
Mohanty, C. R. 2474
Mohanty, S. K. 1512, 1962, 2484, 4683
Mohapatra, N. K. 3707
Mohit Singh 1924
Mohyuddin, M. 1269
Mokhtar, A. M. 2632
Mol, P. C. 3647
Moldosanova, G. A. 3308, 4494

Molet, P. M. 3393
Moletti, M. 1497, 3028
Molina, R. 2265, 2813
Molinari, G. P. 2280
Moline, H. E. 2785
Moll, J. N. 3593
Moll, R. H. 648
Moller, M. J. 1141
Molot, B. 2574
Molot, C. 328
Molot, P. M. 1321
Molot, P.-M. 4566, 4570, 4571
Molyneux, S. A. 1865
Momma, T. 726, 3606
Monaco, P. 3664
Mondal, R. 1021
Monestiez, P. 1261
Monette, P. L. 3158
Monga, A. 1518
Montagu, M. Van 854, 2140
Montealegre A., J. 266
Montero, J. C. 4366
Montes Agusti, F. J. 480
Montes, R. A. 2522
Montesano, D. 4129
Montgomerie, I. G. 1115, 1125, 3140
Montgremier, H. A. de 683
Montorsi, F. 4679
Mookerjee, A. 780
Moons, C. 3556
Moore, B. J. 279
Moore, D. L. 478
Moore, L. D. 387, 756, 814, 2637, 4020
Moore, L. W. 3270, 4114
Moore-Landecker, E. 4113
Moore-Parkhurst, S. 898
Moorman, G. W. 2247, 4331
Mooter, M. Van den 690
Moots, C. K. 5033
Moraes, R. S. 4539
Morales, F. J. 4519
Morales G., F. J. 3331
Morand, P. 309
Morando, A. 1137
Mordue, J. E. M. 2895
More, B. B. 1019, 2226
Morelet, M. 2657
Moreno M., O. 2965
Moreno Martínez, E. 1912
Moreno, P. 4302
Moret i Benaset, A. 919, 920
Morgan-Jones, G. 68, 81, 2389
Morgan, M. K. 1791
Morgan, N. G. 4355
Morgan, P. 3670
Morgan, W. M. 1865, 4555
Mori, K. 1842, 1843, 2013
Morin, J.-M. 3242
Morinaka, T. 188, 1022, 1935, 2726
Moriondo, F. 2172
Morita, Y. 4033
Morris, B. B. 2867
Morris, D. B. 1899
Morris, E. R. 1964
Morris, J. B. 3611
Morris, J. C. T. 929
Morris-Krsinich, B. A. M. 2354, 4636
Morris, M. J. 839, 840, 5065
Morris, P. J. 4976
Morris, S. C. 1973, 5022
Morris, T. J. 681, 2005
Morrison, L. S. 3078, 3251
Morrow, L. S. 4977
Morton, A. 3551, 3562
Morton, H. L. 776, 4486
Mortvedt, J. J. 3897, 5039
Mosch, W. H. M. 732, 3625
Moscovitz, M. 4630
Moskov, G. 3706
Moss, J. P. 3372
Mosse, B. 548, 3775
Mossop, D. W. 1587, 2354
Mott, R. L. 1241, 1242
Motta, E. 4487
Motte, G. 1103, 1122
Mouchez, C. 4641
Mouli, B. C. 749, 2626
Mount, M. S. 2777, 2778
Mourichon, X. 3142
Mousain, D. 2819, 3433
Moustafa, S. 1208
Moustafa, S. E. 1207, 1209
Mowat, W. P. 969, 1058, 2924
Mowry, T. M. 4328
Moxham, S. E. 4039, 4162, 5013
Moyer, J. W. 524, 2024
Msatef, Y. 2818, 4165
Muchlas 4395
Muehlbauer, F. J. 1272
Mueller-Dombois, D. 3999
Mughogho, L. K. 182
Mugur, S. 1112
Mühlbach, H.-P. 2903
Muimba-Kankolongo, A. 3397
Muirhead, I. F. 1127
Mukadam, D. S. 903, 1308
Mukerji, D. D. 1849
Mukerji, K. G. 55
Mukewar, P. M. 3349
Mukherjee, N. 4383
Mukhtiar Singh 4190, 4191
Mukobata, H. 3080
Mukunya, D. M. 1761
Mulholland, R. I. 4489
Mullaney, E. J. 631
Müller, D. 3830
Müller, E. 4657
Müller, I. A. 3040
Müller, K. 3915
Muller, P. J. 3057
Mumford, D. L. 433
Mumford, J. D. 109
Mumm, R. F. 3697
Munasinghe, H. L. 826, 5050
Mundry, K. W. 2356
Mundy, B. P. 743
Munghate, A. G. 1920
Muniyappa, V. 2223, 3465, 3974
Munjal, R. L. 1688
Munnecke, D. E. 875
Munro, D. 605, 2577
Munro, P. E. 2227
Munzert, M. 2093
Mur, G. 4387
Murai, M. 3794
Murakoshi, S. 2151
Murant, A. F. 89, 536, 946, 1114, 1257
Murashchik, I. G. 4121
Murata, N. 2486
Muratmukhamedov, Kh. 1988
Murchú, P. Ó. 4028
Murdoch, C. W. 2162, 2652
Murray, D. I. L. 165, 4997
Murray, F. 4392
Murray, M. E. 2438
Murray, T. 144
Murray, T. D. 2976
Murty, V. S. T. 1952
Murvanishvili, I. K. 3160
Musselman, R. C. 3699
Mustakimova, F. 1988
Musumeci, M. R. 492
Muthusamy, M. 3284, 3359, 3364
Muthusamy, S. 1196, 3852
Muto, H. 4327
Myagkova, D. V. 2406, 2432
Myalova, L. A. 3574
Myburgh, L. 4954
Mycroft, H. 4870
Myers, D. F. 4457
Myznikova, N. I. 996
Nachmias, A. 2610, 3325, 4849
Nadal i Puigdefàbregas, M. 919, 920
Nagar, M. L. 3818
Nagarajan, K. 937, 1202
Nagarajan, S. 130, 3483
Nagat, T. 3750
Nagata, T. 938, 1847, 3085
Nagel, J. 3886
Nagra, P. 4818
Nahata, K. 3080
Naidu, V. D. 1936
Naik, D. M. 171
Naiki, T. 142, 2680, 4033
Nair, M. C. 3370
Nair, M. K. 4833
Nair, N. G. 1311, 1312
Naito, H. 200
Naito, R. 1131
Najlah, N. A. 4846
Nakagawa, T. 2982, 3032
Nakai, Y. 947, 3384
Nakamura, K. 490
Nakamura, T. 3014
Nakano, K. 3310
Nakazawa, N. 2547
Nakhla, M. K. 1207, 1208, 1209
Nalli, R. 1893, 2003, 2167, 4468
Namai, T. 1938, 3013
Namba, S. 699
Nambiar, K. K. N. 3406, 4393
Nambiar, V. 837
Nancarrow, R. J. 2929
Nanda, H. P. 661, 2008
Nandapalan, K. 2845
Nandi, B. 1144, 1435
Nandris, D. 1625
Nangia, N. 2223
Napoli, M. 2645
Naqvi, Q. A. 1407
Naqvi, S. A. M. H. 2576
Narain, U. 1530, 1532, 1924, 2010
Narania, K. 4175
Narasimhan, V. 3179, 3180, 3183, 3184
Narayan, M. C. J. 2765
Narayanasamy, P. 2760, 3284, 3356, 3358, 3359, 3360, 3363, 3364, 3365, 3369
Narayanaswamy, B. C. 3182
Narendra Singh 2323
Narita, Y. 809
Naryanasamy, P. 3357
Nasimovich, Yu. A. 3258
Nassuth, A. 2216, 2911, 4074
Nasu, M. 63
Natarajan, K. 43
Natarajan, S. 1196, 2938, 3176, 3365, 3366, 3367, 5043
Nath, J. 1522, 1735
Nath, R. 3349
Nathaniels, N. Q. R. 2684
National Agronomic Station, Oeiras 2329
Natsuaki, T. 4858
Natsvlishvili, N. M. 4754
Natural, M. P. 183
Nault, L. R. 1480
Naumova, I. P. 997
Nautiyal, S. R. 1849
Navaratnam, S. J. 1807
Navarro A., R. 4522, 4523
Navarro, L. 4302, 4303
Navase, A. G. 3949
Nawa, I. N. 171
Nayak, M. L. 4961
Nayak, P. 2472
Nayar, K. 1758
Nayer, S. K. 130, 4241
Nayudu, M. V. 3355
Ndihokubwayo, J. 735
Neale, M. C. 2275, 4840
Nedumaran, S. 3993
Neely, D. 1222, 2369, 4019, 4332
Neergaard, P. 4218, 4398
Negrean, G. 2330
Negrilă, A. 1111
Neilands, J. B. 16
Neish, G. A. 74, 4677
Neitzel, K. 1169, 3615, 3938
Nekludova, I. V. 3462
Nel, P. C. 2440
Nelson, D. C. 370
Nelson, E. B. 2870
Nelson, G. A. 4757
Nelson, L. R. 630
Nelson, M. R. 89, 833
Nelson, P. E. 1831
Nelson, P. V. 233
Nelson, R. R. 3847
Nemec, S. 552, 1815, 2492, 3436
Németh, J. 859
Németh, M. V. 1661
Nemli, T. 907
Nene, Y. L. 502
Nes, W. D. 1378, 2311
Nes, W. R. 2311
Neshev, G. 3881
Nester, E. W. 1338, 1785, 1787, 2063, 2575
Netzer, D. 4647
Neuhaus, W. 1008
Neumann, H. 1008
Nevase, A. G. 4908
Neves, B. P. das 500
Nevill, D. J. 1297
Newase, A. G. 2736
Newbould, P. 50
Neweigy, N. A. 2715, 2716, 2717
Newhart, S. R. 1069
Newhouse, J. R. 2651, 4010, 4455
Newsome, W. H. 1352
Ng, S. Y. C. 3400
Ngiramigabo, G. 735
Niazi, F. R. 680
Nicholas, D. J. D. 3768
Nicholson, R. L. 3508
Nickell, C. D. 5033
Nickelson, L. J. 249, 652
Nickerson, K. W. 767, 4460, 4461
Nicole, M. 1625
Nicole, M. R. 737
Nicolson, T. H. 4145, 4146
Nieder, G. 293, 3924, 3926
Nielsen, J. 4876
Nielsen, N. E. 2825
Nielson, H. 4098
Nienhaus, F. 2059, 2564, 2565, 2710, 3390, 4055, 4745, 4746
Nik, W. Z. 4812
Nikitina, E. V. 4681
Nikitina, K. V. 2728, 2781, 3340
Nikolaeva, S. I. 449
Nikolcheva, M. 4225, 4643
Niks, R. E. 1874, 1875, 1901
Nilangekar, R. G. 2495
Nilsson, B.-A. 2106
Nio, H. L. 4701
Nipoti, P. 1527, 1582, 1755, 2862
Nirenberg, H. 2325
Nirmaljit Singh 1752, 1753
Nishi, A. 2194
Nishiguchi, M. 2633
Nishijima, W. T. 285
Nistelrooy, J. G. M. Van 670, 3049, 3761
Nitta, H. 2457
Noda, T. 3035, 3036
Nohejl, J. 2084
Nolt, B. L. 3353, 3361, 4547
Nong, X. 3862
Nordheim, E. V. 3110
Nordquist, P. T. 3512
Norelli, J. L. 1566
Norris, R. C. 3712, 4408
Norris, R. F. 535
Norwood, J. M. 2234, 4080, 4556, 5049
Nosek, A. 4005, 4006, 4007
Nothnagel, E. A. 3339
Nouallet, J. 4400
Nouman, K. A. 677
Nour, A. H. 96, 97, 98
Novacky, A. 679
Novák, J. B. 432
Noviello, C. 1062, 3784, 3883, 4629
Novikova, M. V. 2961
Nowacka, H. 1102
Nozu, M. 717, 3026
Nuckles, E. 3946
Nuormala, N. 2183
Nuque, F. L. 4292
Nurmuratov, T. 3469
Nutter, F. W., Jr. 246
Nydegger, U. 724
Nyéki, J. 1578
Nyland, G. 1570, 3124
Nylund, J. E. 41
Ó Murchú, P. 4028

Oak, S. W. 4473
Oates, J. D. 845, 4274, 4275
Oberwinkler, F. 347, 913
Obi, I. U. 1479
O'Brien, J. G. 4486
O'Brien, M. J. 5062
O'Brien, R. G. 3982, 3983
O'Brien, V. J. 3954
Obst, A. 3820
Obukowicz, M. 4593
Odagiri, T. 3312
Odagiri, Y. 4160, 4161
Odell, D. E. 930
Odiemah, M. 2998
Odigie, E. E. 113
Odinets, A. G. 3535
Odintsova, I. G. 2400, 2401
Oettel, G. 4506
Ogawa, J. M. 1572, 3572, 4367, 4718
Ogawa, K. 2476
Ogawa, T. 4689
Ogiso, M. 2800
Ogoshi, A. 3787, 4495
Oguchi, T. 412
Ogundana, S. K. 3402, 3731
Oh-ishi, I. 3989
Oh, J. K. 2315
Ohata, K. 2235
O'Hayer, K. W. 3190
Ohh, S. H. 1150
Ohki, S. T. 594
Ohno, T. 4210
Ohsaka, N. 2455
Ohta, K. 2463
Ohta, S. 4027
Ohtsuki, S. 2286
Oikawa, T. 2452, 2453, 2454
Ojha, K. C. 4905
Okada, K. 938
Okada, Y. 4210
Okajima, M. 2721
Okamoto, H. 2603, 3191, 3192, 4973
Okie, W. R. 391, 3569
Okiror, M. R. 3332
Okon, Y. 867, 963, 1322, 2246, 2266, 3247, 4573
Oksenyuk, G. I. 3521
Okuda, S. 4858
Okuno, T. 1818
Olarte M., D. 4524
Old, K. M. 396, 583
Oldfield, G. N. 3808, 3809
Oleksyuk, L. N. 77
Olembo, T. W. 4783
Oleshchenko, L. T. 4417
Oliveira, D. A. 1034, 1035, 1046, 1048, 1277, 1278, 1279, 1506, 1721
Oliveira, D. P. 1154
Oliveira Filho, N. L. de 1048
Oliveira, G. H. N. de 525
Oliver, A. J. 2834, 3768
Olivier, D. L. 3786
Olivier, J. M. 2545, 3558
Ollivier, B. 2304
Olsen, M. W. 434, 3055
Olson, L. W. 4620
Olszewska-Rynkal, I. 3616
Olutiola, P. O. 3243
Oman, P. W., Sr. 277
Omar, A. R. 993
Omar, R. A. 197, 198, 940, 941
Omuemu, J. O. 1226
Omura, T. 188, 191, 653, 1022, 1935, 2458, 4682
Ondradu, G. 329
Ondřej, M. 2123, 4864, 4913, 4914, 4915
O'Neill, N. R. 1495, 3547
O'Neill, T. M. 35
Öner, M. 922
Onesirosan, P. T. 2733, 2734, 3710
Ong, C. A. 191
Ongaro, L. 1677
Oniki, M. 3787
Onilude, A. A. 3243
Ono, K. 4431, 4432, 4433, 4434
Ono, S. 2799
Ono, T. 2681
Ono, Y. 2250
Onoe, T. 2988
Onoğur, E. 4388
Onuki, M. 717
Onyango, D. M. 1761
Ooka, J. J. 258
Ooms, G. 854
Oosten, H. J. Van 2541
Opel, H. 4261
Opgenorth, D. C. 2155, 3596, 4458, 4790
Orcutt, D. M. 387, 756, 814, 2637
Oren, Y. 4301
Orion, D. 1524, 4849
Orlikowski, L. B. 2507, 2512
Orlov, V. A. 2877
Orlova, G. I. 1644
Ormrod, D. P. 851
Osanai, Y. 2547
Oshima, N. 2633
Oshima, R. J. 3217, 3699
Osler, R. 1497, 1498, 3835
Osman-Ghani, N. 156
Osman, S. F. 4975
Osorio, G. 4524
Ospanbekova, B. K. 1080
Ostasheva, N. A. 1091
Ostazeski, S. A. 255
Østergaard, H. 2768
Østergaard, S. P. 3944
Ostermann, W.-D. 2099
Ostrofsky, A. 4023
O'Sullivan, E. 2107
Otal, T. 2912
Othman, B. O. 4288
Othman, F. 1145
Otjen, L. 2655
Otsubo, T. 783
Otten, L. 854, 2140
Ou, S. H. 4686
Ouchi, S. 2258
Ousmane, E. 683
Owen, H. 1708, 4352
Owen, M. G. 682
Owera, S. A. P. 2416, 3837
Owusu, G. K. 3474, 4867
Oyama, K. 3085
Ozawa, T. 2681, 2721
Ozeretskovskaya, O. L. 4418
Paberza, I. 1613
Paccaud, F. X. 620
Pacetto, M. 3813
Pacovsky, R. S. 4151, 4153
Padhi, B. 912
Padmanaban, R. 3975
Padmanabhan, D. 2014
Padmanabhan, P. 4761
Padmanabhan, S. 429
Pados, P. 2702
Padule, D. N. 2736, 4908
Paillard, M. 4673
Paini, L. M. S. 4837
Paisooksantivatana, Y. 4220
Paiva, W. O. 4564
Pal, A. K. 4917
Pal, R. N. 3145
Pal, V. 3037, 3527
Palakarcheva, M. 3976, 3980
Palanisamy, G. A. 3282, 3283
Palaniswami, A. 3282
Palatinus, L. 2534
Palilova, A. N. 1885
Palit, S. 1303
Paliwal, Y. C. 2379
Palni, L. M. S. 4117
Palomar, M. K. 813, 1762
Palti, J. 4112
Palve, S. B. 2643
Pan, S. 1354, 2328, 4600
Panagopoulos, C. G. 2063, 2575
Panayotakou, M. 2946
Panayotou, P. C. 2353
Panchenko, L. P. 4376
Panconesi, A. 1677, 4782
Pánczél, M. 1577
Pande, B. N. 1723, 1733
Pande, H. P. 3973
Pandey, D. K. 1731, 2802, 3427, 4069, 4821
Pandey, K. K. 2864
Pandey, M. P. 3714, 3717
Pandey, R. N. 1299
Pandey, R. S. 1005, 1597, 3919
Pandey, S. C. 4280
Pandey, U. B. 4084
Pandeya, R. S. 2629
Pandu, S. R. 1350, 1521, 1726
Pandurangegowda, K. T. 195, 1027, 1505
Pandya, B. P. 3717
Pandya, N. N. 4071
Pan'kova, N. E. 19
Pant, S. K. 1915
Papavizas, G. C. 212, 580, 1756, 2867, 3418, 4114, 4508
Papdiwal, P. B. 1057, 2786
Pappelis, A. J. 827, 4560
Paradela Filho, O. 1626
Parameswaran, T. N. 341
Parbery, D. G. 1826
Parejarearn, A. 188
Parfitt, R. I. 1229
Parimoo, H. L. 2237
Parisot, D. 4845
Park, C. S. 4030
Park, I. S. 146
Park, J. S. 2460, 4296
Park, M. L. 2366
Park, R. F. 2164
Park, W. M. 1289
Parker, B. L. 3203
Parker, J. E. 4857
Parkin, R. J. 251
Parkinson, D. 564, 894, 2828
Parlevliet, J. E. 3407, 4263
Parmelee, J. A. 4192, 4194
Parmer, S. M. S. 2195
Parmeter, J. R., Jr. 901, 1237, 3288, 3292
Paroda, R. S. 1963
Parrini, C. 1590
Parry, D. W. 4931
Parry, R. W. H. 1964
Parshakova, L. N. 2138
Partiot, M. 612
Partridge, J. E. 3512
Parvais, J. P. 611
Pas, J. B. Van der 4483
Pascholati, S. F. 3508
Pasichnik, L. A. 25
Pasini, C. 1076
Pasquini, M. 4242, 4243
Passam, H. C. 4087
Pastor Corrales, M. A. 2206
Paszternák, F. 1578
Patel, K. D. 4744
Patel, P. N. 1728, 2222
Paterson, J. 259, 454
Pathak, M. D. 4894
Patil, B. G. 669, 1450
Patil, B. K. 2448
Patil, B. P. 298, 2736, 4908
Patil, L. K. 1620
Patil, M. 2493
Patil, M. B. 495, 4611
Patil, N. N. 62
Patil, R. B. 1790
Patil, S. H. 4891
Patil, S. S. 3336
Patil, V. K. 2495
Pátkai, T. 3243
Patrick, Z. A. 4186
Pătru, N. 1111
Patschke, K. 3738
Pattee, K. B. 856
Patterson, M. 2492
Pauer, G. D. C. 1827, 5041
Paul, E. A. 4152, 4154
Paul, H. L. 3474, 4414, 4867
Paul, R. N. 1309
Paul, U. 3738
Paul, V. 705, 706
Paulin, J. P. 2271
Paulin, R. N. 2554
Pavan, M. A. 3991
Pavelek, M. 4916
Pavgi, M. S. 4741, 4795
Paviot, J. 308
Pawar, M. N. 2450
Pawelska, K. 2674, 2675
Pawley, R. R. 1996
Paxton, A. R. P. 1740
Payak, M. M. 174
Payen, D. 2584, 4400
Payne, G. A. 1916, 2999
Payne, J. A. 3659, 4998
Peaden, R. N. 3899
Pearce, R. B. 770, 2254
Pearson, R. C. 313
Pécaut, P. 3727
Pecknold, P. C. 951
Pedersen, H. C. 5038
Pedersen, W. L. 3509
Pedro, M. J., Jr. 2497
Peev, B. 3477
Peeva, R. 3976
Pegg, G. F. 2639, 2640, 4931
Pegg, K. G. 1232, 4378
Pei, M. 2378, 2691
Pelcz, J. 4506, 4561
Pelet, F. 698
Pell, E. J. 1188, 3216
Pelletier, R. L. 3397
Peñaloza, E. 379
Penčić, V. 650
Peng, C. H. 3277
Peng, J. M. 122
Peng, X. 3548
Pennazio, S. 4639, 4987
Penny, A. 150, 1878, 2392
Pennycook, S. R. 2341, 2561
Pennypacker, B. W. 1083
Pennypacker, S. P. 535, 3244
Pépin, R. 2837
Peralta, E. L. 4413
Percich, J. A. 249, 652, 4286, 4900
Perea, C. 2978
Perea, C. F. 2962
Peredo, H. 3279
Peregrine, W. T. H. 1393, 3319
Pereira, A. L. G. 1046
Perennec, P. 3619
Pérez, J. R. 747, 748
Pérez Marin, J. L. 310
Pérez Padrón, F. 2052
Pérez V., L. 1128
Pérombelon, M. C. M. 858, 1185, 1186, 2119
Perraton, B. 2502, 3491
Perrier, X. 3052
Perrin, R. 1864, 3434
Perry, D. A. 858, 1258
Perry, R. 340
Perry, R. G. 1676
Perry, S. K. 4328
Persley, D. M. 178
Perz, N. 799, 801
Peshney, N. L. 496
Pesho, G. R. 1402
Petäistö, R.-L. 4454
Peter, K. 4422
Peters, B. B. 273
Peters, D. 89, 2203, 2921, 4492
Peters, R. A. 3505
Petersen, A. C., Jr. 1841
Petersen, G. R. 2847
Peterson, D. J. 808
Peterson, J. F. 3103, 4549
Peterson, J. L. 1676, 2160
Peterson, R. A. 1127
Peterson, R. L. 42, 3765
Peterson, R. S. 426, 2667
Peti, J. 1909
Petit, A. 854
Petitprez, M. 4810
Petrini, O. 3287, 4657
Petrů, E. 1788
Pett, B. 350
Pett, I. 1169, 2091
Peusha, Kh. O. 2401, 2402
Pevnitskaya, L. A. 2670
Pezet, R. 319, 2568, 3165
Pfender, W. F. 1275
Pfister, J.-A. 4674
Phatak, S. C. 877, 2755
Phelps, K. 5013
Philipp, W.-D. 2284, 2696, 4178
Phillips, D. H. 1651
Phillips, D. J. 2041
Phillips, J. N. 1991

Phillips, M. 160
Phillips, S. 1996, 2179, 2180
Phillips, W. E. 4211
Piazzolla, P. 754
Piché, Y. 42, 3765
Pichon, P. 1426
Piening, L. J. 1475, 4879
Pierce, L. 3071
Pietkiewicz, J. 3612, 3638
Pietrak, J. 3617
Pigott, C. D. 886, 887
Pike, D. J. 3003
Pilipenko, V. G. 4121
Pillai, N. G. 4407
Pillai, P. K. T. 4393
Pillai, S. N. 4744
Pimentel, C. P. V. 975
Pina, J. A. 4302, 4303
Pines, M. 1822
Pink, D. A. C. 5008, 5020
Pino, A, J. A. 5063
Pinon, J. 401
Pintér, C. 1621
Pinto de Torres, A. 3111
Pionnat, J. C. 3043
Piplani, S. 1602, 1603
Piplani, S. S. 1604
Pirone, T. P. 114, 2355, 3977
Pischl, D. L. 2268
Pisetskaya, N. F. 3224
Pisi, A. 2902, 4034, 4612
Pissinger, P. 1448
Pistre, R. 1593
Pitipornchai, P. 4220
Pitner, J. B. 1640
Pitrat, M. 3674, 4793
Pitta, G. P. B. 1065
Pittaway, P. A. 88
Pittet, J.-L. 2840
Plaisted, R. L. 4759
Plank, S. 762
Planque, K. 4115
Plashchev, V. M. 2689
Plassard, C. 2819
Platford, R. G. 1252
Platonova, T. A. 4418
Platt, H. W. 4972
Platz, G. J. 1447, 2975
Plazibat, M. 4335
Pleij, C. W. A. 4427
Plenchette, C. 56, 2826, 2835, 4157, 4158
Plescher, A. 3170, 3187
Pleše, N. 1533
Ploetz, R. C. 3543
Ploper, L. D. 1274
Plotnikova, L. Ya. 3450
Plotnikova, T. S. 405
Plotnikova, Yu. M. 133
Plumb, R. T. 1329, 1427, 1433, 1543, 2392, 3832
Poapst, P. A. 3237
Pochard, E. 3674, 4570, 4571
Poehlman, J. M. 149, 1457
Poinso, B. 1540
Pokojska-Burdziej, A. 1665
Pokorny, F. A. 2299
Polák, J. 355, 2004
Polak-Vogelzang, A. A. 4217
Pollard, C. M. D. 645
Pollini, C. P. 3568, 3913
Polyakov, I. Ya. 957
Pometto, A. L., III 3782
Pommer, E.-H. 322
Ponchet, J. 4781
Ponniah, S. 2938, 3366, 3961, 4070
Pont, V. 3165
Pontius, G. A. 4565
Poole, R. T. 2075
Poon, E. S. 1198, 1199
Pope, P. E. 2307
Popescu, M. 1111
Popescu, V. 1112
Popov, A. 3477
Popov, V. I. 240
Popova, T. 4643
Popović, J. 3289
Popović, M. 757
Popow, G. 620
Porrott, S. W. 1096
Porta-Puglia, A. 1794, 4440
Porter, D. M. 4550
Porter, G. M. 4976
Porto, M. D. M. 1291
Posluszny, U. 42
Posthumus, A. C. 1417
Posthumus, M. A. 3647
Potlaĭchuk, V. I. 1092
Powell, C. A. 4204
Powell, C. C. 107, 108, 3059
Powell, C. C., Jr. 223
Powell, C. L. 1369, 1370, 1372, 4150
Powell, J. M. 4479
Powell, N. T. 3231
Powell, V. 2624
Powelson, M. L. 3937, 4527
Power, R. H. 4993
Powers, H. R., Jr. 2664, 3293, 3298
Prabakaran, K. 863
Prabhu, A. S. 1937, 1953, 2219, 3029, 3856
Prakasam, N. 3179, 3180, 3183, 3184
Prakash, G. 217
Prasad, B. 2282
Prasad, M. B. N. V. 3046
Prasad, N. 1602, 1603, 1604
Prasad, N. N. 1036, 1508
Prasad, R. B. 2959
Prasad, S. 28
Prasad, S. S. 1585
Prasad, Y. 1499, 2504
Pratella, G. 3118
Pratt, J. E. 423
Pratt, R. G. 692, 1085
Prayitno 4395, 4397
Preece, T. F. 821, 822
Preil, W. 1531
Premkumar, T. 4833
Premlata Singh 1388
Presly, A. H. 514, 5019, 5053, 5054, 5055, 5056
Pretorius, Z. A. 4874
Previtera, L. 3664
Prew, R. D. 2392
Price, D. 1999, 2944
Price, K. R. 3497
Price, L. K. 4859
Price, T. V. 2227
Priestley, R. H. 1877, 1892
Prileszky, G. 1577
Primault, B. 2606
Pritam Singh 4775
Procter, R. 1013
Proctor, J. T. A. 1567, 1569
Proeseler, G. 1084, 3463, 3476, 4493
Proll, E. 2099
Prostakova, Zh. G. 3340
Protopapadakis, E. 3044
Protsenko, M. A. 1411, 3628
Provvidenti, R. 684, 1700, 2143, 2923
Prusky, D. 2051, 4943, 4955
Pshennikova, E. S. 600, 601
Pu, E. X. 4978
Pu, Z. 3801
Puchala, Z. 704
Puerta E., O. D. 4522, 4523
Puerta, O. D. 4524
Pugacheva, T. I. 2634
Pullinger, J. 3555
Pullman, G. S. 1989
Punithalingam, E. 85
Punja, Z. K. 1541, 2314
Pupavkin, D. M. 415
Pupipat, U. 3314
Puppi, G. 46, 4147
Purcell, A. H. 536, 3124
Purcifull, D. E. 89, 815, 1341, 3720
Purdy, L. H. 4760
Purkayastha, R. P. 2261, 3033
Purna, A. 1757
Purser, D. 1740
Purusotman, R. 673
Puscheck, E. E. 1833
Pusey, P. L. 3452
Putta, M. 188, 1935
Pystina, K. A. 1000
Qadri, S. M. H. 1605, 4084
Qin, B. 3644
Qin, Y. 2934
Qing, H. L. 4666
Qiu, B. 2378, 2691, 3499
Quacquarelli, A. 2808, 2940, 4703
Quantick, P. 3213
Quesneau, Y. 3753
Quimio, A. J. 3964
Quinn, C. E. 2103, 2119
Quinn, J. A. 223
Quintanilla, J. A. 4182
Quintero, S. 1026
Quiot, J.-B. 595, 1261
Qureshi, S. H. 1262
Rabatin, S. C. 566
Rabbinge, R. 2391
Rabenstein, F. 1084
Rabindra, B. 660
Rabindran, R. 3174
Rabinowitch, H. D. 2672
Raccah, B. 2096
Raddi, P. 3298, 4782
Raditsuele, S. 4660
Raemaekers, R. H. 171
Raeuber, A. 3615
Rafenomananjara, D. 4268, 4269, 4270
Rafey, A. 1965
Ragazzi, A. 1239, 1590, 1673
Raghavan, G. S. V. 2708, 4051
Ragozzino, A. 4567, 4792
Ragupathy, N. 3852
Rahe, J. E. 512, 1318, 3385, 3724
Rahman, M. M. 1958
Rai, B. 2688, 2742
Rai, R. N. 3065, 3067, 3152
Rai, R. P. 2617
Raininko, K. 2183
Raizada, A. B. 3929
Raj Singh 3932
Rajagopal, R. 1210, 3368
Rajak, R. K. 4624
Rajamanickam, B. 3366, 5043
Rajapakse, R. H. S. 723
Rajappa, H. K. 660
Rajaram, S. 119
Rajchenberg, M. 1220, 2650
Rajderkar, N. R. 62
Rajendran, C. 4312
Rajeshwari, R. 3353, 3361, 4547
Rajinder Singh 567, 4172
Rajpurohit, T. S. 1523
Rajput, J. C. 2643
Raju, B. C. 1341, 1570, 3124, 3538
Raju, K. S. 1521, 4824
Ram, B. 126
Ram, C. S. V. 749, 2626
Ramachandran, M. 1942
Ramachandran, P. 499
Ramachar, P. 2897
Ramadan, E. M. 2619
Ramaekers, D. 3261, 3262
Ramaiah, K. V. A. 780
Ramakrishnan, G. 3282, 3283
Ramalingam, A. 184
Ramalingam, P. 4687
Ramallo, N. E. V. de 1195, 1197
Ramanathan, T. 3194
Ramaraj, B. 4962
Ramarao, P. 1379, 1380, 1390, 1919, 2342, 3379
Ramchandaran, P. 1526
Ramesh, C. R. 1828
Ramiah, M. 3284, 3356, 3357, 3358, 3359, 3364
Ramírez A., I. 2965
Ramírez González, J. 1912
Rammah, A. 2532, 2533
Ramsdell, D. C. 276, 4386, 4390, 4960
Ramson, A. 3738, 4763
Ran, Y. 138
Rana, G. L. 1319, 2513, 4697, 4704
Ranalli, P. 459
Randazzo, G. 4693
Randhawa, A. S. 3486
Randhawa, H. S. 3313
Randles, J. W. 2074, 2531, 3805, 5031
Rane, M. S. 495
Ranganathan, K. 1307
Rangaswamy, G. 3406
Rangeley, A. 50
Rani, I. 3349
Rani, N. 3037
Rani, N. S. 1956
Rani, V. U. 4740
Rao, A. A. 1350, 1726
Rao, A. N. 2842
Rao, A. V. 3175, 3178
Rao, C. J. S. 2842
Rao, C. S. 1040
Rao, D. N. 2229
Rao, D. S. 1356, 1766
Rao, G. M. 1931
Rao, K. N. 182
Rao, K. V. S. 4284
Rao, M. 4312, 4517
Rao, N. N. R. 3046, 4795
Rao, N. S. S. 2265
Rao, N. V. 1305
Rao, P. R. 1009, 2342, 2993
Rao, P. V. S. 3374, 4551
Rao, R. 817
Rao, R. N. 3609
Rao, S. M. 2938, 3176, 3366, 4070, 5043
Rao, S. N. 2804
Rao, S. S. 538, 3746
Rao, T. G. N. 651
Rao, V. P. 4893
Rao, V. R. 3372
Rao, V. S. 1305
Rapilly, F. 2370, 3487, 4400, 4665
Rapp, L. 865, 1800
Raschké, J. H. 946
Raski, D. J. 3156
Rassel, A. 261
Rast, A. T. B. 1320, 2908
Rath, N. 281
Rathee, P. S. 4134
Rathore, O. S. 1325
Rathore, R. S. 3445
Ratkos, J. 931
Rattan, G. S. 4904
Rausch, T. 440, 3679
Ravichandran, V. 208, 2765
Ravkin, A. S. 4373
Rawla, G. S. 573, 1383, 4180
Rawlinson, C. J. 1399, 4214
Ray, T. C. 3552
Raychaudhuri, S. P. 680, 1526, 1598
Raynal, G. 4347
Rayner, A. D. M. 2165, 4466, 4994
Raynor, G. S. 4430
Razin, S. 2926
Read, D. J. 899, 2838
Reanney, D. C. 2348
Reddi, A. P. 1767
Reddi, C. 1757
Reddy, A. B. 1507
Reddy, A. S. 1147
Reddy, B. S. 222, 2654
Reddy, D. B. 1780
Reddy, D. V. R. 3352, 3353, 3361, 3465, 4547
Reddy, E. J. S. 3758
Reddy, G. S. 4909
Reddy, G. V. 1356
Reddy, J. R. 1757, 1767
Reddy, K. J. M. 4553
Reddy, K. S. 3988
Reddy, M. A. 3514
Reddy, M. K. 2589
Reddy, M. N. 1766
Reddy, M. S. 1350
Reddy, M. V. 4076
Reddy, P. R. 1512, 1962, 2484, 4690
Reddy, S. M. 1044, 1147, 1360, 1734, 2153, 2319, 3758, 4077, 4175
Reddy, T. S. N. 937
Redfern, D. B. 2646
Redolfi, P. 4639
Reed, G. L. 450
Reed, J. E. 3512

Reeleder, R. D. 1089
Rees, A. A. 2646
Rees, R. G. 1447, 2975
Refatti, E. 3100, 3101
Reffold, T. C. 2646, 3271
Regev, S. 2039
Regnault, Y. 4400
Regulski, F. J., Jr. 2160
Regupathy, D. 2014
Rehbein, C. 1191
Reichman, M. 4635
Reicosky, D. A. 474
Reid, C. P. P. 40, 1813, 2821
Reid, M. S. 1132
Reifschneider, F. J. B. 443, 455, 3849
Reilly, C. C. 3569
Reinert, J. A. 3086
Reinhardt, D. H. R. C. 3149
Reinhold, M. 155, 635, 636
Reis, E. M. 1823, 3490, 3812, 3823
Renaudin, J. 4641
Renfro, B. L. 170, 2995
Rennert, D. 3938
Repechkene, U. P. 577
Resnik, F. C. Z. de 112, 2374
Rethoret, K. 1396
Reust, W. 4409
Reuveni, R. 3325, 4047, 4048, 4849
Revko, A. S. 2697
Rey, M. E. C. 4339
Reynolds, K. L. 1280
Rhoads, R. E. 2355, 4637
Rhodes, J. D. 2307
Rhodes, L. H. 566
Ribeiro, O. K. 3778
Ribeiro, R. de L. D. 525
Ribeiro, W. R. C. 5017
Ribereau-Gayon, P. 332
Ricard, J. L. 4014
Riccelli, M. 179
Ricci, P. 1321
Rice, A. D. 3205
Richard, M. 307
Richards, W. C. 1224
Richardson, J. 942, 1580
Richardson, M. J. 2377, 2641
Richardson, P. E. 1055, 1056, 3882
Richins, R. 608
Richins, R. D. 1850
Richmond, D. V. 4201
Richter, A. 4371
Richter, J. 865, 1169, 1800, 3464, 4258, 4259
Rickard, J. E. 1324
Riddle, L. 229
Ride, J. P. 3496, 4873
Riding, R. T. 1675
Riesner, D. 3459
Riesselman, J. H. 1473
Riffle, J. W. 2815
Rijsdijk, F. H. 619, 2391
Rimmer, S. R. 1252
Rine, S. M. 2969, 2970
Rintelen, J. 4755
Rios, G. P. 500
Ripley, B. D. 2602, 3119
Rishbeth, J. 4450
Risse, L. A. 2017
Rissler, J. F. 219, 4064, 4544
Ritchie, D. F. 2042
Riţiu, C. 1111
Rittenburg, L. H. 3573
Riva, M. 3688
Rivaldo, O. F. 3922
Rivera, J. C. 3164
Rivera, M. 800
Rivera, N. 1323
Rivera S., C. 4052
Riveros B., F. 2965
Rizvi, S. S. A. 2405
Roane, M. K. 3278
Robak, J. 3311
Röbbelen, G. 1463
Robert-Baudouy, J. 3753
Robert, Y. 1424
Roberts, A. L. 3552, 3570, 3607
Roberts, A. N. 229
Roberts, A. V. 2016
Roberts, D. A. 596, 2136
Roberts, D. L. 242, 825
Roberts, I. M. 969, 1116
Roberts, P. L. 380
Roberts, T. M. 2526, 2527
Robertson, D. C. 897
Robertson, G. I. 290
Robertson, J. A. 897
Robinson, D. J. 945, 946, 969, 1163, 1853, 2919, 2924
Robinson, J. D. 3560
Robles, J. 721
Robson, A. D. 1371
Roby, D. 1267
Rochow, W. F. 2950
Rockel, B. A. 4997
Rodecap, K. D. 4223
Rodionova, N. A. 2432
Rodionova, N. P. 3462
Rodorff, B. 4707
Rodrigues, C. J., Jr. 853
Rodriguez, J. F. 1705
Rodríguez, J. L. 374
Rodriguez-Kabana, R. 68
Roelfs, A. P. 1429, 1881
Roessing, A. C. 3343
Roggero, P. 192, 4987
Röhner, E. 1353
Rohringer, R. 1003, 1470, 2316, 2317, 2396
Rolim, P. R. R. 1034, 1277, 1278, 1279, 1506
Romaine, C. P. 509, 1069, 3383
Romano, M. L. 3069
Roncadori, R. W. 2299
Roosien, J. 944, 2911, 3802
Rooy, M. de 3057
Roquebert, M.-F. 83
Rosa, M. de la 4382, 4415
Rosa, R. La 228, 232, 1537, 3884
Rosales, A. M. 1960
Rose, D. G. 3622
Rose, D. L. 949
Rose, D. R. 2646
Rose, J. L. 2213, 4065
Rose, L. M. 4386
Rose, W. 3042
Roseboom, P. 4492
Rosenberger, D. A. 700, 2036, 3554
Rosenkranz, E. 647, 4671
Rosenow, D. T. 179, 183
Roser, D. J. 88
Rosner, A. 4630
Ross, G. J. S. 562
Ross, J. P. 4537
Rossberg, R. 1008
Rossel, H. W. 2208, 2217, 2992, 3007, 3008, 3342, 3376, 3400
Rossetti, V. 1045
Rossi, A. E. 4885
Rossi Jaume, A. 4774
Rossignol, M. 1266
Roston, A. J. 1277, 1278, 1279
Rotaru, V. 2801
Rotem, J. 535, 733, 2605, 4419, 4420
Roth, D. A. 695, 4529
Rothwell, F. M. 4603
Rouchaud, J. 3556
Rough, D. 4367
Roumpos, I. 3157
Rouselle, G. L. 3103
Roussel, C. 331, 334, 335
Rovira, A. D. 1445
Row, K. V. S. R. K. 2472, 4292
Rowan, S. J. 2660, 2661
Rowe, R. C. 734, 5016
Rowell, P. M. 456
Rowney, D. L. 1667
Roy, A. 2648
Roy, A. K. 2475, 2560, 4174
Roy, A. N. 1518, 3323
Roy, K. W. 484, 491, 807, 1290, 1643, 2725, 3344
Royo, C. 995
Rozhkova, V. T. 2579
Rozsnyay, D. Z. 1577
Rozum, L. V. 134
Ruban, V. I. 20
Rubens, T. G. 1258
Rubery, P. H. 805
Ruddat, M. 2848
Rudkiewicz, F. 3947
Ruegg, E. F. 492
Rufelt, S. 4346
Rui, G. 3904
Rumbos, I. 3157
Rumbos, I. C. 2555
Ruokola, A.-L. 1579
Rupe, J. C. 1918
Ruperez, P. 4171
Ruppel, E. G. 3306
Rush, C. M. 543
Rush, M. C. 1495, 4906
Rushdi, M. H. 1183, 1214, 1270, 1292
Russell, G. E. 1888
Russell, G. H. 2438
Russo, F. 2928, 3041, 3864
Russo, G. M. 2846, 2847
Russo, J. F. 4328
Russo, M. 471, 1319, 1405, 4702, 4743, 4792
Russo, P. S. 403
Russo, V. M. 4560
Ruthven, A. D. 2103
Rutter, A. J. 775
Ruzicska, P. 4766
Ryabova, I. M. 3531
Ryan, C. C. 3218
Ryley, M. J. 2213
Rylski, I. 2245
Rysbaeva, K. D. 1080
Rysz-Białota, M. 2404
Ryvarden, L. 1220, 4623
Saaidi, M. 730
Sabaou, N. 2767
Sablon, C. 1152
Sabo, F. E. 4930
Sachidanantham, K. 2938, 3176, 3366, 4070, 5043
Sachs, E. 3738, 3830
Sacks, J. M. 628
Sackston, W. E. 4712
Saettler, A. W. 3696
Safaryan, S. E. 316
Safeeulla, K. M. 1828, 3054, 3320, 4313
Saf'yanov, S. P. 999
Sagasta, E. M. 1702
Sagawa, H. 2988
Sagemann, W. 3474
Sağir, A. 4568
Saha, S. C. 902
Saharan, G. S. 3181, 3354
Sahu, R. K. 1510
Sahu, S. P. 1499
Sahu, V. N. 1510
Saied, K. S. 1133
Saikia, A. K. 2560, 3917
Sailly, M. 2502
Saindrenan, P. 3115, 3423
Saini, R. G. 1509
Saini, S. 1588
Saini, S. S. 4169
St. John, T. V. 2812
Saito, H. 716
Saito, I. 1898, 2037
Saito, S. 2462
Saito, Y. 1022, 1935, 4682, 5044
Sakar, D. 1272
Sako, N. 2239
Saksena, S. B. 236, 289, 1387, 1413, 1420, 1859, 2585, 3153
Sakuma, T. 710, 2038
Saladini, J. L. 3546
Salazar, L. F. 2101
Salehuzzaman, M. 4923
Salem, A. 1270
Salem, A. A.-M. 1052
Salem, M. A. 4724
Salerno, M. 4692
Sall, M. A. 297, 304, 337, 4958
Salleh, B. B. 4352
Salomon, R. 602, 4301
Salomone, M. C. 301
Salsac, L. 2819
Salt, G. A. 4536
Salumu-Shabani 649
Samantaray, R. N. 1947
Samborski, D. J. 998
Samiyappan, R. 2066
Sammons, B. 219
Samokhina, T. V. 1094
Sampaio, I. B. M. 2149
Sampson, P. J. 959
Samson, R. A. 2891
Samson, R. G. 124
Sanborn, M. R. 5040
Sánchez-Capuchino, J. A. 262
Sánchez de L., A. 3877
Sanchez de Leon, A. 209
Sanchez-Monge, R. 3494
Sanchez-Serrano, J. J. 857
Sanctis, F. De 4369, 4385
Sanders, F. E. 2823
Sanders, P. L. 1083
Sandhu, K. S. 515, 516, 4041
Sandhu, T. S. 3378
Sands, R. 1813
Sanfelieu, C. L. 4009
Sänger, H. L. 3459
Sangerapillai, V. 1038
Sannegowda, S. 195, 1027, 1505
Sansome, E. R. 507
Santhakumari, P. 1930
Santos, J. R. M. 443
Sanyal, A. 902
Saponaro, A. 1913, 4487, 4679
Sar, S. 4810
Sarachu, A. N. 2911
Saragoni, H. 1204
Sarhan, A. R. T. 1212
Sari, A. 2605
Sarıbay, A. 4185
Sarkar, B. B. 4082
Sarkar, G. 1303
Sarkar, K. R. 1483
Sarkar, N. 2883
Sarkar, S. 751, 2350, 2598
Sarma, M. N. 3968
Sarode, M. S. 4249
Saroja, R. 1942
Sarojak, D. J. 3373
Sarrazin, J. F. 306
Sarwal, B. M. 567, 4172
Sarwar, M. 341
Sasaki, H. 3048
Sasaki, K. 2681
Sassen, B. 3796
Sasser, M. 2141
Sastri, A. B. 1202
Sastry, K. S. 521
Sastry, M. N. L. 3182
Satapathy, M. K. 1932, 1933, 1934, 4683, 4684
Sati, K. C. 1736, 1737, 4816
Sato, S. 587, 3280
Sato, T. 587, 588, 1825, 3280, 4336
Satoh, N. 2455, 2456
Satour, M. M. 1295
Sattar, A. 3608
Satyanarayana, G. 3975, 4021
Satyanarayana, K. 1956
Satyaprasad, C. 4740
Satyaprasad, K. 3379
Sauer, D. B. 1428, 2376
Saunders, G. A. 1378
Saur, R. 4789
Saurer, W. 620
Sautich, M. A. 134
Sava, R. J. 766, 3662
Savage, S. D. 304, 4958
Savile, D. B. O. 2885
Saville, D. J. 1088
Savin, G. 2573
Savino, V. 471, 4727
Savithri, H. S. 3803
Sawada, Y. 4350
Sawai, K. 1818
Sawczyc, M. 4126
Saxena, A. 3153
Saxena, A. K. 236, 289, 1413, 1420, 1859, 2585
Saxena, K. N. 4575
Saxena, R. C. 1024
Saxena, S. C. 1485, 1491
Saxena, V. K. 1487
Saxena, Y. R. 3973

Scaife, M. A. 4044
Scala, F. 4629
Scannerini, S. 2811
Scapin, I. 1138, 3920
Scaramuzzi, G. 2170, 4319
Schaad, N. W. 15, 2193, 3270, 4127
Schachnai, A. 207
Schadewijk, A. R. Van 688, 3532
Schaefer, H.-J. 1095, 4371
Schäfer, W. 854
Schaffer, B. 3294
Schagen, J. G. Van 1135, 1136
Schall, R. A. 4886
Schaller, C. C. 2556
Schans, J. 2189
Schaper, U. 2543
Schardl, C. L. 4589
Scharen, A. L. 631, 1836, 2974
Scharpf, R. F. 3290, 4475
Schcherbinin, B. M. 758
Scheer, H. A. T. Van der 2541
Scheffer, R. J. 10, 3240, 4996
Scheffer, R. P. 4173
Schein, R. D. 246, 1016
Scheinpflug, H. 542, 2955
Schell, J. 2140
Schell, J. S. 854
Schenck, N. C. 39, 59, 2295, 2866
Schenk, G. 1169, 2091, 3201
Schepers, A. 2600
Scher, F. M. 1824
Schieber, E. 209
Schiessendoppler, E. 1158
Schilperoort, R. 3748
Schilperoort, R. A. 854, 2784
Schiltz, P. 4768
Schindlbeck, W. E. 3302
Schippers, B. 67
Schlegel, H. 4261
Schlösser, E. 1434
Schlub, R. L. 2244
Schmidle, A. 4937
Schmidt, D. 241, 1552, 4345
Schmidt, E. L. 2649
Schmidt, H.-B. 4561
Schmidt, H. E. 3167
Schmidt, R. A. 1658
Schmidt, T. 4211
Schmidt, U. 3168
Schmitt, D. P. 1711
Schmitthenner, A. F. 107, 582, 3059, 3546
Schneider, E. F. 86
Schneider, I. R. 99
Schneider, R. W. 2171
Schnepf, E. 2766
Schöber, B. 2105, 2604
Schoen, J. F. 2444
Schoeneweiss, D. F. 3671
Schofield, M. A. 1336
Scholz, M. 3614
Schönbeck, F. 2508, 2983, 3814
Schöner, M. 4755
Schönhar, S. 3300
Schonhorst, M. H. 2027
Schoonejans, E. 4591
Schoonen, M. P. M. 3843
Schott, H. 979
Schott, M. D. 759
Schoulties, C. L. 1042, 1077, 2889
Schramm, W. 132, 139
Schroeder, M. L. 675
Schroedter, H. 2359
Schroth, M. N. 536
Schubert, J. 1002
Schubert, M. L. 691
Schuck, H. J. 424
Schüepp, H. 324, 336, 3161, 3925
Schuhmann, P. 362
Schultz, F. J. 4061
Schultz, G. A. 3190, 5032
Schultz, R. C. 2814
Schulz, U. 4937
Schulze, C. P., Jr. 3577
Schumacher, J. 3459
Schumann, G. L. 2368
Schumann, K. 4707
Schuster, G. 934, 3618, 3797, 3978
Schuster, M. L. 469, 3415
Schwabe, W. F. S. 3108
Schwartz, H. F. 2206, 4490
Schwarz, M. R. 2045
Schwarzbach, E. 1453, 1465
Schweers, V. H. 389
Schwinn, F. J. 2901
Scott, D. B. 1010
Scott, D. H. 951
Scott, G. E. 647
Scott, K. J. 571, 1129, 2550
Scott, P. R. 3498, 4231, 4233, 4234
Scriven, F. M. 4361
Seaby, D. A. 961
Seaman, W. L. 86
Searle, L. M. 440
Šebesta, J. 1906, 4669
Sebesta, P. 418
Sechler, D. T. 149, 1457
Secor, G. A. 731
Sedarous, S. A. 940, 941
Sedlar, L. 3239
Sedun, F. S. 4788
See, G. K. 1256
Seeley, N. D. 1851
Seemüller, E. 2543
Segawa, K. 2547
Segeren, P. 4965, 4966
Segers, L. C. 3057, 3072
Segovia, V. F. S. 4086
Sehgal, H. S. 2654
Sehgal, O. P. 149, 1404, 2632
Seif, A. A. 522
Seif El-Nasr, H. I. 3549
Seijas, B. C. 3186
Seiler, H. 4120
Sekhon, K. S. 148
Sekido, S. 2787
Sekizawa, Y. 657
Sela, I. 4635
Sellam, M. A. 1183, 1214, 1270, 1292, 1316, 1716
Sells, I. A. 2119
Semancik, J. S. 607
Semeniuk, P. 2516
Semenov, A. Ya. 537
Sementsova, M. P. 3330
Sen, C. 1354, 2290
Sen-Sarma, P. K. 1231
Senboku, T. 3853
Senn, H. 1375
Senula, A. 3908
Seo, H. D. 1123
Sequeira, J. C. 969, 4771
Sequeira, L. 2622, 4123, 4982
Serapión, J. L. 374
Serezhkina, G. V. 133
Sergienko, I. V. 1374
Seri Radin Soenarno 1779
Serra, M. T. 1705
Serrada, J. 857
Şesan, T. 904, 2843, 4159
Seshadri, K. 2066
Sethar, H. 1464
Sethi, I. 621
Sethi, J. K. 567, 573, 4172
Sethuraman, V. 3195, 3196, 3197, 3199
Setty, M. V. N. 3974
Severo, J. L. 475
Sewell, G. W. F. 3555
Seymour, C. P. 3526
Sezgin, E. 1051, 1053, 1986
Shabi, E. 3906, 4357, 4367, 4938
Shabtai, S. 4765
Shahabuddin, M. 4637
Shahi, B. B. 1502
Shahjahan, A. K. M. 1958, 3524
Shaĭmardanov, I. M. 1080
Shalaby, H. S. 2619
Shalaby, R. A. 94, 2909
Shambulingappa, K. G. 3182
Shamsher Singh 2251
Shang, Y. 2482
Shankaranarayanan, D. 3763
Shanker, G. 4909
Shankhapal, K. V. 2858
Shanks, J. B. 219
Shanks, J. C. 3337
Shanmugam, N. 3177, 3178, 3370, 3371
Shanmuganathan, N. 292
Shao, F. M. 1520
Shao, P. X. 3277
Sharma, A. D. 1688
Sharma, C. P. 4236
Sharma, G. D. 44, 45
Sharma, H. S. S. 1873
Sharma, I. 1729, 2739
Sharma, I. K. 772, 1660, 4017
Sharma, J. K. 768
Sharma, K. P. 376
Sharma, M. P. 586
Sharma, M. R. 4778
Sharma, N. R. 1966
Sharma, O. P. 519, 1922, 2635
Sharma, P. D. 2346
Sharma, R. B. 1518, 3323
Sharma, R. C. 174, 4072, 4609
Sharma, R. K. 1487
Sharma, R. R. 1752, 1753
Sharma, S. C. 1487, 1509
Sharma, S. K. 1948, 1950, 4828
Sharma, S. L. 2514, 4609
Sharma, S. R. 1254, 1703, 4040, 4444
Sharma, V. C. 834
Sharma, Y. R. 1599
Sharom, M. S. 2281
Sharon, E. 2266
Sharp, E. L. 635, 636, 4267
Sharpe, E. L. 155
Shastri, N. V. 2493
Shata, H. M. 2430
Shatla, M. N. 3188
Shattock, R. C. 2518, 2519, 3580
Shaukat, G. A. 1974
Shaw, C. 854
Shaw, D. S. 1817, 4620
Shaw, J. G. 1634, 2355, 4637
Shaw, M. J. P. 2174
Shaw, P. D. 4593
Shchekochikhina, R. I. 996, 997, 3481
Shchelko, L. G. 2728, 3340
Shcherbatenko, I. S. 4417
Shea, S. R. 1657, 4462
Shearer, B. 1657
Shearer, B. L. 4462
Sheehan, T. J. 3073
Shehata, M. R. 3062
Sheir, H. M. 2078, 3062
Shekhawat, P. S. 1696
Shekunova, E. G. 1253
Shen, C. Y. 4164, 4202
Shen, J. Y. 122, 3277, 3834
Shen, Y.-Q. 2852
Shenoi, M. M. 190
Shepherd, R. J. 608, 820, 1850
Shepherd, R. K. 2139
Shepherd, R. L. 2500
Sheridan, J. E. 1871, 1905, 3816
Sherkar, B. V. 4725, 4726
Sherman, M. 2159
Sherrell, C. G. 3891, 3898, 3901
Sherwood, R. T. 3087, 3893
Shetty, A. 3320, 4796
Shetty, G. H. P. 4309
Shetty, H. S. 173, 3320
Shevyakova, M. I. 4708
Shew, H. D. 578, 1072, 3666
Shi, P. G. 4878
Shi, Q. L. 4035, 4036
Shiau, J. F. 956
Shibata, A. 3989
Shida, T. 2701
Shifriss, O. 3684
Shigemitsu, H. 9
Shigo, A. L. 274, 3285
Shih, D. S. 609
Shikata, E. 654, 2089, 3794, 3853, 4287, 4559
Shim, J. S. 146
Shimada, K. 2455, 2456, 2463
Shimizu, T. 2587
Shimomura, T. 752
Shimura, T. 2566
Shimuzu, H. 3014
Shin, H. D. 4581
Shinde, P. A. 5060
Shindo, K. 2465, 2466, 2470
Shioji, T. 638
Shipton, P. J. 1445
Shirata, A. 3583
Shirokov, A. I. 3513
Shishiyama, J. 638
Shivakumar, T. S. 1011
Shivpuri, A. 505, 4705
Shobha 1547
Shoeib, A. 4306
Shoham, H. 4112
Shohara, K. 2458
Shoji, A. 3005
Sholberg, P. L. 4718
Shorrocks, V. M. 4850
Short, M. N. 1203
Shortle, W. C. 4023
Shreemali, J. L. 4621
Shrivastava, M. N. 1510
Shrivastava, P. S. 1510
Shrivastava, R. C. 4829
Shtok, D. A. 214
Shu, S. T. 2154
Shukla, A. K. 1299, 4912
Shukla, D. D. 3060
Shukla, D. N. 1005, 1597, 2065, 3919
Shukla, K. 1493, 3851
Shukla, P. 1699, 4803, 4815
Shukla, S. K. 1849
Shukla, S. N. 3088
Shukla, T. N. 1924, 4280
Shukla, V. N. 678, 818
Shumaker, J. R. 3207
Shumway, C. 4560
Shurtleff, M. C. 166
Shuvalova, G. V. 955
Shvartsbakh, Ya. 1562
Shvedskaya, Z. M. 2949
Siddaramaiah, A. L. 344, 494, 727, 728, 774, 819, 1233, 2169
Sidhu, G. S. 3990, 4196
Sidhu, H. K. 4169
Sidhu, M. S. 180
Siegel, M. R. 1918
Siegfried, W. 324, 336, 3161, 3925
Siepmann, R. 413
Sigee, D. C. 382, 1641, 1642, 3232, 3233
Signoret, P. A. 1481, 1540
Sijam, K. 4936
Sikora, R. A. 4696
Silbernagel, M. G. 4520
Silsbury, J. H. 2834
Silva, A. V. da 139
Silva, C. B. da 1130
Silva, G. H. 465
Silva, L. F. da 8
Silva, W. M. 1626
Silveira, A. P. da 1626, 1721
Silvey, V. 1876
Simeray, J. 881
Simini, M. 964
Simlot, M. M. 2282
Simmons, E. G. 4628
Simon, E. 1347, 1576
Simon, J. 4394
Simon-Pujol, D. M. 4188
Simons, M. D. 2987
Simonyan, S. A. 406, 2505, 3451
Sims, J. J. 2051, 2844
Sinclair, J. B. 489, 1717, 3702, 4060, 4543, 5035
Sinclair, W. A. 3430, 3431, 3468
Šindelář, L. 445
Sindhamathar, A. 3179
Sindhu, J. S. 1732
Singburaudom, N. 170, 2995
Singh, A. K. 1952, 1957, 3969
Singh, A. P. 4181
Singh, B. B. 2220
Singh, B. N. 1499
Singh, B. P. 2695, 2776, 3733
Singh, B. S. 1387
Singh, D. 2966

Singh, D. B. 2688
Singh, G. 3715, 4892
Singh, H. 2706, 2707
Singh, H. B. 1697
Singh, H. C. 1301, 1727
Singh, H. P. 3001
Singh, H. S. 1300
Singh, H. V. 3354
Singh, I. D. 342
Singh, J. 1910, 2992
Singh, J. P. 790, 1743, 4734, 4800
Singh, K. 3715, 3973
Singh, K. B. 4076
Singh, K. G. 1808
Singh, K. P. 1732
Singh, L. 4326
Singh, O. S. 3437
Singh, P. J. 4818, 4819, 4820
Singh, P. N. 4815
Singh, R. 1301, 1727, 4075
Singh, R. A. 1891, 3525, 3719, 4292, 4709
Singh, R. B. 2581
Singh, R. P. 603, 1171, 3969, 4626, 4752
Singh, R. R. 4803
Singh, R. S. 2323, 4799
Singh, S. 4626
Singh, S. A. 1037, 1941, 2478, 4294
Singh, S. D. 4285
Singh, S. J. 1260, 2168, 3274, 4016, 4470, 4502, 4831
Singh, S. K. 190, 1798, 1799, 4130
Singh, S. N. 1507
Singh, S. P. 2206, 3428
Singh, T. 126
Singh, U. P. 1697
Singhal, V. P. 1547
Singhrot, R. S. 4734
Sinha, A. K. 199, 1585
Sinha, A. P. 1441
Sinha, K. K. 1388, 3051
Sinha, O. K. 375
Sinha, R. C. 3246, 4919
Sinha, R. K. 1359
Sinha, S. K. 3945
Sinha, S. N. 902
Sinha, V. C. 4241
Sinigovets, M. E. 4656
Siqueira, J. O. 2295
Siradhana, B. S. 505, 1300
Siraskar, R. D. 1921
Sirdhana, B. S. 1020
Sirohi, S. S. 3437
Sisler, H. D. 3015, 4132, 4902
Sitch, L. 2686
Sivakadadcham, B. 3555
Sivanesan, A. 84
Sivasithamparam, K. 221, 1583
Sizova, T. P. 1644
Skadow, K. 3234
Skajennikoff, M. 3487
Skalický, V. 3446
Skelly, J. M. 1654
Skene, K. G. M. 1134
Skerman, V. B. D. 911
Skipp, R. A. 4929
Sklarz, B. 4989
Skoropad, W. P. 55
Skotland, C. B. 1141, 3928
Skoyen, I. O. 3309
Skripal', I. G. 3744, 4215, 4376
Skrzypozak, Cz. 2507
Skubatz, H. 4988
Skurygina, N. A. 4658
Skylakakis, G. 26
Slabaugh, W. R. 284
Slack, S. A. 4971
Slater, J. H. 2762
Slater, S. E. 4265
Slattery, R. J. 2611
Slaughter, G. W. 1667
Slauzhene, D. U. 577
Slavov, G. 3477
Slavov, N. 2549
Sleper, D. A. 691
Slinkard, A. E. 1732
Slobbe, L. Van 178
Slobbe, W. 3647
Slogteren, D. H. M. Van 3057
Slogteren, G. M. S. Van 4115
Slusarenko, A. J. 4528
Sly, J. M. A. 2275, 3169, 4840
Slyusarenko, A. N. 2394
Smalley, E. B. 1488, 1914
Smart, G. C., Jr. 3207
Smedegaard-Petersen, V. 1474
Smee, L. 2441
Smeltzer, D. L. K. 2173
Smidt, M. L. 22
Smiley, R. W. 2523
Smith, A. G. 805
Smith, A. R. W. 3552, 3570
Smith, C. B. 1399
Smith, C. C. 469
Smith, D. 1838, 3791, 3792
Smith, D. A. 2204, 5029
Smith, D. J. 469
Smith, E. A. 968
Smith, F. A. 3768
Smith, G. J. 4255
Smith, G. L. 2270
Smith, G. M. B. 4262
Smith, G. S. 59
Smith, G. W. 559
Smith, I. M. 61, 2145, 2792
Smith, I. W. 769
Smith, J. 930
Smith, J. D. 4646
Smith, J. E. 2773
Smith, J. J. 644
Smith, L. G. 2055
Smith, L. R. 2978, 3388
Smith, P. M. 1866
Smith, P. R. 1432
Smith, S. E. 2834, 3768, 4136
Smith, S. H. 3383
Smith, T. A. 879
Smith, T. K. 1243
Smitley, D. R. 392
Snellgrove, R. C. 49
Snow, J. P. 675
Snyman, C. P. 3592, 4948, 4949
Soave, J. 1035, 3856
Sobti, A. K. 1300
Société Française de Phytopathologie 531, 2761
Soenarno, S. R. 1779
Sohi, H. S. 390, 788, 1254, 1703, 4444, 4797
Sokhi, S. S. 4831
Solanke, R. B. 2743, 4804
Soldatov, V. N. 2432
Solel, Z. 3672
Solheim, H. 4780
Sollins, P. 1364
Solomon, J. J. 4746
Solomon, R. H. 1164
Solomon, R. M. 1165, 3620
Som, D. 217
Somashekar, R. K. 4309
Sommer, N. F. 1108, 3139
Sommier, J. Y. 334, 335
Sonego, O. R. 476
Soni, K. K. 3295
Sonnenbichler, J. 3780
Sonoda, R. M. 1572, 2144, 2240, 4367
Sorensen, E. L. 3899
Sorensen, L. H. 4967
Sorokina, N. V. 4754
Sotirova, V. 1215
Soto T., M. A. 3941
Sotomayor, A. 186
Sotomayor, I. A. 4760
Sotomayor Soler, J. P. 3162
Sousa, C. N. A. de 4245
Souter, R. D. 267, 268, 3560
Southwick, S. M. 1042
Souty, M. 3126
Souza, D. M. de 3856
Soverchia, G. 4129
Sowell, G., Jr. 828
Soyer, J. P. 328
Sozzi, D. 3425
Spaar, D. 2099
Spalding, D. H. 1584
Spanó, L. 3986
Sparks, D. 3665
Sparks, W. R. 2345
Speakman, J. B. 143, 3821
Spencer, A. 5012, 5019, 5053, 5054
Spencer, D. M. 2007, 2196, 2197
Spenner, W. 1377
Spieth, P. T. 78
Spikman, G. 388
Splittstoesser, W. E. 49
Sportelli, M. 1527, 1582, 2862
Spotts, R. A. 273
Springer, J. P. 3444
Sproul, A. N. 786
Spurr, H. W., Jr. 4114
Sreenivasulu, B. 3758
Sreenivasulu, P. 3355
Sreeramulu, K. R. 4156
Sridhar, R. 1512, 1962, 2484, 4683
Srinivasan, N. 948, 2483, 3525
Srithongchai, W. 1692
Srivastava, D. P. 1029
Srivastava, G. 1538
Srivastava, K. C. 3929
Srivastava, K. J. 4084
Srivastava, K. M. 3733
Srivastava, L. S. 4053
Srivastava, M. P. 1041
Srivastava, N. 1792
Srivastava, R. C. 105, 2590
Srivastava, R. N. 237, 2511, 4334
Srivastava, R. S. 4075
Srivastava, S. C. 2135
Srivastava, S. K. 2683
Srivastava, S. L. 2365, 4513
Srivastava, V. B. 1386
Šrobárová, A. 256
Stachewicz, H. 362, 3952, 4410
Stack, R. W. 3783
Stahl, P. D. 2294
Stalker, H. T. 2215
Stall, R. E. 672, 1977, 3526, 3656, 5061
Stamova, L. 1215, 1648, 3241
Stan, G. 3245
Stanarius, A. 1084, 3463, 3476
Stanarius, T. 4208, 4258, 4259
Standaert, J. Y. 735
Standish, E. D. 427
Staněk, M. 437
Stanghellini, M. E. 434, 1679
Stanley, J. 2357
Stanton, D. T. 3420
Staples, R. C. 3334, 3408, 4170
Stark, D. 3667
Starlinger, P. 854
Statler, G. D. 1439, 2405, 2503
Staub, T. 2901, 3425
Stäubli, A. 2540
Stavely, J. R. 4526
Steadman, J. R. 3694
Steblyuk, M. I. 988
Stec, M. 2795, 2796
Steele, J. L. 4550
Steenkamp, J. 2030
Štefanac, Z. 1533
Stefani, M. A. 3375
Steffens, W. 2955
Stein, U. 326
Steiner, K. G. 3743
Stejereanu, M. 1112
Stelfox, D. 4710, 4787
Stellmach, G. 2563
Stenström, E. 4137
Stepanova, S. I. 2781
Stephan, S. 3627
Stephen, R. C. 1088
Stephens, C. T. 107, 108, 2157, 2158, 2188, 3059
Stephens, M. A. 103
Sterne, R. E. 3916
Steubing, L. 1417
Stevens, C. 1478, 3846
Stevens, C. L. 94
Stevens, G. R. 4057
Stevens, W. A. 591
Stevenson, J. H. 3158
Stevenson, K. 5013
Stevenson, R. E. 535
Stevenson, W. R. 450
Stewart, H. E. 1172, 3629
Stewart, R. N. 1070
Stiers, D. L. 2861
Stimart, D. P. 2020
Stinchcombe, G. R. 1229
Stipanovic, R. D. 3056
Stirling, G. R. 2259
Stoev, K. 1140
Stoffella, P. J. 2144, 2240
Stoian, E. 2573
Stolbova, K. A. 3482
Stolk, A. C. 2891
Stolle, K. 2604
Stoloff, L. 4998
Stone, O. M. 1995, 1996, 2180
Storey, C. L. 1428
Stössel, P. 1715, 2202
Stott, K. G. 1229
Stouffer, R. F. 260
Stoyanov, I. 622, 623
Strakhov, T. D. 981
Strange, R. N. 448, 1306
Stratton, G. W. 2289
Stretch, A. W. 2044, 4940
Stribley, D. P. 49, 562, 2298
Stribley, M. F. 3205
Strider, D. L. 233
Strobel, G. A. 743, 3444, 4177, 4457
Stromberg, E. L. 176
Strouts, R. G. 2646
Strullu, D. G. 550, 3769, 3770
Strzelczyk, E. 1665, 3291
Stuart, M. R. 4028
Stuckey, R. E. 114, 474
Stünz, E. 4043
Stuthman, D. D. 2963
Styszko, L. 3623
Su, H. J. 5000
Su, S. J. 1637, 1638, 1639
Su, T. H. 2243
Suarez Fernandez, G. 4188
Subrahmanyam, P. 3372, 3374, 4551
Subramanian, C. V. 2872
Subramanian, K. S. 3367
Subramanian, N. 3284, 3359, 3364
Subramanian, S. 3763
Subramanya, R. 829
Sugahara, K. 782, 1681
Suhadolnik, R. J. 4635
Suhag, L. S. 4734, 4800
Sujan Singh 1247
Sujkowski, L. 3635
Süle, S. 1337, 1786, 2782, 4119
Sullia, S. B. 208, 2765
Sullivan, C. 3316
Suman, B. C. 4499
Sumar, S. P. 1269
Sumbali, G. 1559, 1560, 2057, 2198, 4715, 4798
Summanwar, A. S. 499
Summons, R. E. 4837
Sumner, D. R. 2755, 2991, 3510, 4888
Sumo, F. J. 2489
Sun, H. 3862
Sun, L. 2538
Sun, M. L. 1511
Sun, S. K. 1264, 1637, 1638, 2146, 3322
Sundaram, B. M. 3763
Sundheim, L. 447, 789, 4505
Sung, J.-M. 146, 488
Sung, J. M. 2460, 4296
Supaad, M. A. 4288
Suparyono 4298
Suppal, H. S. 1588
Suprun, V. I. 3210
Surico, G. 175
Surlí, J. A. 799, 800, 801
Surmava, M. E. 4498, 4786
Surnakova, N. E. 363, 3630
Surya, I. 3240
Suska, M. 2592
Šuta, V. 1112
Šuteri, B. D. 4206
Sutherland, I. W. 2274
Sutherland, J. B. 3782
Sutherland, J. R. 420

Šutić, D. 4717
Suttill, T. 420
Sutton, B. C. 4012
Sutton, D. C. 5030
Sutton, J. C. 824, 1013
Sutton, T. B. 707, 708, 4935
Suvorova, T. F. 758
Suwa, M. 2476
Suzui, T. 3989, 4811
Suzuki, H. 659, 2382, 3346
Suzuki, K. 575, 1263
Suzuki, K.-I. 3752
Suzuki, Y. 657
Švecová, M. 468
Svedelius, G. 269, 270
Swait, A. A. J. 3557, 3560, 3566
Swamy, R. N. 3198
Swart, H. J. 1826
Swarup, J. 1744
Świadek, D. 2446
Swinburne, T. R. 472, 830, 831, 1873, 3143, 3403, 3607, 3728, 4569
Swings, J. 690
Sydow, B. von 3461
Syller, J. 2086
Sylvester, E. S. 942, 1107, 1580
Sylvia, D. M. 2866, 3430, 3431
Symons, R. H. 89, 729, 1153, 1406
Syōno, K. 3750
Syvertsen, J. P. 1815
Szalay, E. K. 1315
Szarka, J. 1678, 2702, 2711, 2749
Szarvas, T. 3221, 3222
Szentiványi, P. 1661
Szepessy, I. 878
Szkolnik, M. 3473
Szőnyegi, S. 1556
Szulc, J. 2593
Taber, R. A. 2296
Tachibana, H. 477, 3690
Tachibana, Y. 2633
Taga, M. 656
Tahvonen, R. 2183
Taimr, L. 4669
Tainter, F. H. 3268
Taira, T. 2477
Taiwo, M. A. 1700
Tajra, T. B. 1067
Takada, K. 3682
Takahashi, K. 3583
Takahashi, T. 726, 3606
Takahata, Y. 2445
Takahi, Y. 3014
Takai, S. 1224
Takamatsu, S. 2881
Takanami, Y. 753
Takatsu, A. 2235
Takebe, I. 938, 1847
Taketani, K. 3031
Takeuchi, S. 2687
Takizawa, T. 2089
Talboys, P. W. 3607
Taliansky, M. E. 600, 601
Talice, R. 3123
Talpaz, H. 4301
Tamayo M., P. J. 3331
Tamayo, P. J. 4519
Tamietti, G. 1685, 4504
Tamura, M. 2021
Tamura, O. 2037
Tanabe, K. 2800
Tanaka, F. 2461, 2722
Tanaka, H. 4594
Tanaka, K. 782, 783, 1681, 2239
Tanaka, T. 2723
Tanasevich, I. E. 989
Tandon, A. 2324
Tandon, D. K. 2135, 3145
Tandon, J. P. 1033
Tandon, K. 1434
Tandon, M. P. 1538, 2056
Tandon, S. K. 1383
Taneja, N. K. 1522
Taneja, S. 2195
Tani, T. 642, 643, 2988
Taniguchi, T. 93, 936
Tanishiki, M. 1940
Tanweer, A. 4841
Tao, J. F. 2934
Tarabeih, A. M. 1067, 1078, 1121, 1148, 1149, 1240
Taraku, N. 4521
Târcomnicu, M. 4279
Taris, B. 4472
Tarunina, T. A. 880, 2865
Tate, K. G. 874, 4377
Tatum, J. H. 1516
Tauqir, S. 2303
Tautorus, T. E. 2238
Tavantzis, M. 3383
Tavantzis, S. M. 3202, 3206
Tay, F. C. S. 2845
Tayal, M. S. 4738
Taylor, A. J. 4262
Taylor, F. 4051
Taylor, G. S. 2684, 3649, 4183, 4430
Taylor, J. D. 796, 5050
Taylor, O. C. 891
Tchatchoua, J. 4696
Teague, W. R. 4187
Teakle, D. S. 4620
Tegtmeier, K. J. 1486, 2443
Tejerina, G. 1705
Temmen, K. H. 3134
Tempé, J. 854
Temple, S. R. 3698
Templeton, G. E. 4114
Tena, M. 4405
Teo, C. H. 3009, 3394, 3396
Teoh, C. H. 2256
Tepper, B. L. 271
Terami, F. 594
Teranaka, M. 4858
Terekhova, V. A. 3448
Teri, J. M. 3522
Terranova, G. 3864
Terrell, E. E. 526
Terry, E. R. 1764, 3397
Teršová, R. 136, 1438
Tesoriero, L. A. 5058
Teterevnikova-Babayan, D. N. 2505
Teuber, L. R. 2536
Tew, T. L. 1628, 3641
Tewari, D. K. 3067, 3152
Tewari, J. P. 55
Tewari, M. C. 429
Tewari, R. 860
Tewari, S. K. 3717
Tey, C. C. 3815
Teylingen, M. Van 1344
Tezenas du Montcel, H. 720
Tezuka, N. 2936
Thakore, B. B. L. 2581
Thakur, D. P. 1923
Thakur, J. C. 516
Thakur, M. K. 1436, 2959
Thakur, R. P. 4284, 4893
Thakur, S. 4600
Thakur, V. 1688
Thalheim, G. 3938
Thapliyal, P. N. 1441
Theron, E. M. 3590
Thia-Toong, L. 2140
Thiele, S. 4506, 4561
Thind, B. S. 1752, 1753
Thind, T. S. 4599
Thirupathaiah, V. 4740
Thoelen, L. 1339
Thomas, B. J. 1997, 3571
Thomas, C. E. 982, 2343, 2423, 3321, 4880
Thomas, D. L. 1156, 4408
Thomas, D. W. 786
Thomas, G. W. 548
Thomas, M. D. 3416
Thomas, P. E. 4753, 4968
Thomas, P. L. 3838, 4876
Thomas, W. T. B. 4880
Thomason, I. J. 535
Thomassin, F. 3304
Thompson, L. F. 2556
Thompson, V. 3972
Thomson, J. R. 4787
Thongmeearkom, P. 1692, 3703, 5044
Thoreson, M. C. 370
Thornbury, D. W. 2355, 3977
Thorne, G. N. 2392
Thornhill, E. W. 2276
Thornton, J. D. 2178
Thorpe, H. J. 2147
Thottapilly, G. 2208, 2217, 2992, 3007, 3008, 3342, 3377, 3401
Thouvenel, J. C. 4091
Thresh, J. M. 536, 3604, 3605
Thri Murty, V. S. 1040
Thrower, L. B. 1416
Thseng, F. M. 202
Thuma, B. A. 5016
Thurn, K. K. 1789
Thurston, H. D. 1276, 4056, 4759
Thyr, B. D. 3899
Tian, B. 2070, 3499, 3646
Tian, Y. 3644, 3645
Tidwell, T. E. 766, 3662
Tiedemann, A. von 4389
Tien, P. 4406
Tietema, T. 3822
Tilak, S. T. 187
Timian, R. G. 1456, 3505
Timm, H. 3217
Timmer, L. W. 1341, 1513, 1967, 3417
Timoshenko, Z. V. 2579, 2580
Tingey, D. T. 4223
Tinker, P. B. 49, 562, 2298
Tinline, R. D. 1445, 2411, 4869
Tinus, R. W. 2815
Tippett, J. 1657
Tippett, J. T. 3285, 4462
Tirrò, A. 3151
Tisselli, O. 4060
Titatarn, S. 3515
Tiwari, R. 3945
Tiwari, U. 2886
Tiwari, V. K. 2324
Tizio, R. 4774
Tóbiás, I. 1250, 2908
Todd, A. D. 2392
Todd, F. A. 750, 1636
Togawa, H. 2566
Tohyama, N. 2799
Toit, F. L. du 4945
Toivonen, P. M. A. 2713, 4501
Tőkés, Á. 2049
Tokeshi, H. 1626
Toler, R. W. 179, 3004, 3086, 3850, 4860
Tolin, S. A. 227, 4062
Toma-Braghini, M. 3053
Tomar, K. S. 3933
Tomaru, K. 753
Tomaszewski, Z. 2436
Tomerlin, J. R. 2032, 3107, 3484
Tomescu, A. 4046
Tominaga, T. 527
Tomiyama, K. 2603, 4973
Tomlinson, J. A. 1848, 1851, 4856, 5008, 5052, 5059
Tommerup, I. C. 53, 558
Tomono, K. 3047, 3048
Tong, D. Q. 3277
Tonkin, C. 4848
Tonkin, M. H. 1876
Topal, R. 2365
Topçu, H. 1268
Toppan, A. 1267
Torabi, M. 2973
Toribio, J. A. 4092
Toriyama, S. 1927, 2023
Tornaghi, R. 1203
Torp, J. 640
Torrance, L. 1548, 1551, 1845
Torres, C. 1128
Torres, E. A. 991
Tosic, M. 1492, 1550
Toth, B. 314
Tóth, J. I. 1178
Tóth, S. 4193
Tourneau, D. le 2861
Tousignant, M. E. 754, 4438
Toussaint, A. 1068, 4590, 4591
Toussoun, T. A. 1831, 3536, 3537
Toutain, G. 730
Towers, G. H. N. 2287
Townsend, R. 2520
Townsley, P. M. 2238
Toyoda, H. 638
Trägner-Born, J. 624
Tran Van Canh 2126
Trandafirescu, M. 1112
Trappe, J. M. 51, 553, 1364, 2265, 2813, 3766
Traquair, J. A. 4670
Treccani, C. P. 3120
Trehan, S. P. 369
Trese, A. T. 4760
Treur, A. 732, 1170
Trevathan, L. E. 245
Tribhuwan Singh 2068
Trichilo, P. J. 2312
Trifonov, D. 711
Trifonov, T. 3477
Trifu, I. 4050
Trikoz, G. A. 4222
Trindade, D. R. 738, 739
Trinick, M. J. 2833
Triolo, E. 2170, 3068, 4319
Trione, E. J. 626
Tripathi, N. N. 1731, 3181, 3427, 4821
Tripathi, R. D. 37, 1358, 1798, 1799, 2802
Tripathi, R. K. 854, 1434, 2899, 3828
Tripathi, R. N. 1357, 2802
Tripathi, S. C. 3428
Trolldenier, G. 1004
Trommer, R. 979
Tronsmo, A. 4109
Tröster, H. 4735
Trottet, M. 629, 3489, 4659, 4663
Trouvelot, A. 4604
Trowell, S. D. 3552
Truhn, M. W. 230
Trujillo, G. E. 3696
Tsai, C. M. 1867
Tsai, J. H. 1156, 3712
Tsai, L. S. 5000
Tsai, Y. P. 4691
Tsao, L. 1023, 3516
Tsao, P. H. 3414, 4164, 4202
Tsay, H. S. 2248
Tseng, H. Y. 4353
Tsien, T. H. 4686
Tsitsina, A. A. 1094
Tsuchiya, K. 3017, 4770
Tsuchiya, S. 2461, 2722
Tsuchizaki, T. 668, 2679, 3517, 4784
Tsukiji, K. 2721
Tsushima, S. 4287
Tsuyama, H. 785
Tsvetkova, N. A. 1271
Tsyplenkov, A. E. 2670
Tu, C. C. 110
Tu, C. M. 4538
Tu, J. C. 462, 3695, 5026
Tu, K. Y. 1023, 3516
Tubaki, K. 2701, 2879
Tucker, D. P. H. 1967
Tuckwell, H. C. 2953
Tuleen, D. M. 1494
Tulisalo, U. 2582
Tully, J. G. 949, 2926
Tuly, J. G. 2077
Tupenevich, S. M. 368, 1180
Turan, K. 3138
Turbin, N. V. 617
Turchetti, T. 3260
Turgeon, R. 854
Turkhede, B. B. 3932
Turner, J. G. 3402
Turner, M. K. 4044
Turner, P. C. 4126
Turner, P. D. 2073
Turner, W. B. 3413
Turska, E. 3623
Tüske, M. 2714
Tuttobello, L. 4694
Tuyl, J. M. Van 2009
Tyagi, R. N. S. 1730, 4802
Tyagi, R. P. S. 126
Tyagi, S. N. S. 2514, 4326
Tyagi, V. K. 3818

Tyihák, E. 3221, 3222
Tyuterev, S. L. 4656
Uchida, J. Y. 258
Uchida, M. 3017, 3863
Uchino, H. 4495
Uchytil, T. F. 4806
Udachin, R. A. 2393
Udachina, E. G. 1094
Udagawa, S. 2879
Udeogalanya, A. C. C. 154
Uecker, F. A. 3854
Uegaki, R. 3460
Uematsu, T. 2235
Ueno, K. 2566
Uesugi, Y. 2793, 2797
Uexkull, H. R. von 1781
Ugolini, A. 2942
Uhm, J. Y. 3894, 3895
Ui, T. 802, 809, 1680, 1898, 2673, 2677, 2678, 3690, 4785
Ukrainets, A. N. 4748
Ulanova, E. F. 600
Ulbricht, G. 3938
Ullasa, B. A. 788
Ullrich-Eberius, C. I. 679
Ulrychová, M. 1788
Ulukuş, I. 4568
Ul'yanishchev, V. I. 3451
Umabala, K. 1379, 1380
Umalkar, G. V. 2856, 2857
Umehara, Y. 2982, 3011, 3012, 3032
Umekawa, M. 791
Umemura, Y. 4577
Umpelby, R. A. 3169
Umralina, A. R. 3308, 4494
Unchalisangkas, D. 3515
Unestam, T. 3301
Unruh, T. 1541
Unsworth, M. H. 851
Upadhyay, B. P. 1502, 1928, 1929
Upadhyay, R. S. 2742
Upadhyaya, G. 3323
Upadhyaya, P. P. 1684
Urban, Z. 4235
Urbasch, I. 4199
Usamani, S. M. H. 662
Ushasri, V. 937
Usherwood, M. 3560
Ushiyama, R. 947, 3384
Uspenskaya, G. D. 3449
Usugi, T. 668, 2458, 3517, 4682
Utatsu, I. 2273
Utikar, P. G. 2226, 4725, 4726
Utkhede, R. S. 512, 1318, 2546, 3385, 3724, 3907
Utkina, N. I. 1686
Uyeda, I. 654, 1846, 2089, 4287, 4559
Uyehara, T. 3013
Uyemoto, J. K. 1911, 4890
Uyttebroeck, P. 2201
Vaishnav, M. U. 1296, 4071
Vajna, L. 4360
Vakalounakis, D. J. 2320, 3655
Valarini, P. J. 3826
Valdés, E. 799, 801
Valencia, G. 1912
Valet, S. 666
Valjalo, J. 3432
Valladares-Sanchez, N. E. 3697
Valle, E. Dalla 3660
Vallega, V. 4242, 4243
Valluvaparidasan, V. 4907
Valverde, R. A. 1273
Vályi, I. 1561, 1578
Vance, C. P. 2258
Vandam, J. 4253
VanEtten, H. D. 1704, 3779, 4167, 4514
Vánky, K. 4193
Vardhan, V. 1359
Vargas B., V. 3163
Vargas, J. M., Jr. 242, 247, 4338
Variar, M. 4741
Varma, A. 3683
Varma, R. K. 33
Varney, E. H. 1536
Varvaro, L. 3831
Vasil'eva, K. V. 3308
Vasileva, K. V. 4494
Vassilev, G. N. 3797
Vassilev, V. I. 634
Vaughn, K. C. 1309
Vaziri, A. 4351
Vázquez, A. A. 4825
Vázquez de Ramallo, N. E. 1627
Vazquez, G. F. 3528
Veeraraghavan, J. 4289
Vegetti, G. 1591
Velasco, B. F. 2894
Velich, I. 2702, 2711
Velikanov, L. L. 2986
Velkov, L. 1565
Velmurugan, A. 2014
Velvis, H. 3953
Vendrig, J. C. 861, 1339, 1340
Veni, S. P. 2014
Venkatasubbaiah, P. 3054, 4309, 4313
Verberne, N. J. 1370
Vercesi, A. 311, 1664, 2659
Vergnes, A. 325, 1593
Verhoeff, K. 3240
Verhoyen, M. 510, 511, 835
Verkleij, F. N. 2921
Verma, A. K. 4817
Verma, H. N. 3456, 3653
Verma, K. P. 3969
Verma, K. S. 1519
Verma, M. M. 3378
Verma, P. R. 2386
Verma, R. N. 1957, 2395
Verma, V. S. 2251, 3885
Vernet, S. 1594
Verver, J. 4213
Veselý, D. 437
Vestberg, M. 2183
Vetten, H. J. 3328, 3377, 4414
Vettorazzi, G. 541
Vicchi, V. 3568, 3913
Victoria K., J. I. 2947
Vidaver, A. K. 18, 22, 2269, 4836
Videnov, B. 3113
Vidhyasekaran, P. 1210, 1307, 3368, 3993, 4962
Vidyavati 4553
Vigier, B. 2708, 4051
Vigil, E. L. 4902
Vijai Singh 4709
Viktorchik, I. V. 1187
Villa, B. 3028
Vilsoni, F. 837
Vincent-Sealy, L. 792
Vink, P. 3057
Vink-Van den Abeele, J. L. 688, 3057
Vir, D. 3910
Virk, K. S. 1606
Virmani, S. S. 2489
Virville, J. D. de 3495
Vishanska, Yu. 1568, 2549
Visnyovszky, E. 1334
Visser, S. 2310
Viswakarma, S. N. 504, 1739, 4078
Vitanov, M. 3723
Vittal, B. P. R. 11
Vivekanandan, P. 1942
Vladimirskaya, M. E. 1686, 2670
Vlaicu, V. 2801
Vlasova, E. A. 2631
Vloten-Doting, L. Van 944, 2911, 3802
Vogel, R. 3038, 3039
Vogel, W. G. 4603
Vogt, V. M. 3799
Voica, E. 1111, 1112
Volle, D. 3914
Voluevich, E. A. 1885
Voluzneva, T. A. 2741
Voronin, E. I. 2552
Voronov, F. P. 617
Vörös, J. 2049
Vos, M. G. 3057
Vos, N. E. de 1188, 3216
Vos, P. 2918, 4213
Vostřáková, B. 36
Vovlas, C. 471, 3318, 4792
Vrain, T. C. 3103
Vuittenez, A. 4730
Vuuren, S. P. Van 3584
Vyas, K. L. 4892
Vyas, S. C. 33
Vytskiĭ, V. A. 1686
Waard, M. A. de 670, 3049, 3761
Wade, N. L. 5022
Wadhwani, K. 1687
Wagih, E. E. 95, 1259, 4491
Wagoner, W. 4511
Wahl, I. 637
Wakabayashi, K. 2278
Waked, M. Y. 1050
Wakeman, R. J. 1173
Wakimoto, S. 2273, 2485, 4640, 4770
Walcz, I. 3890
Waldron, J. K. 1916
Wale, S. J. 3637
Walker, C. 52, 2297, 2305
Walker, D. I. T. 746
Walker, J. 959, 3063
Walker, J. C. 536, 2896
Walker, J. C. F. 4449
Walker, W. F. 1395
Walkey, D. G. A. 517, 796, 2185, 4857, 5008, 5018, 5020, 5027, 5028, 5048, 5052
Wall, R. E. 3135
Wallace, W. 3768
Waller, J. M. 674, 2895, 4834
Walpole, B. J. 4237
Walsgott, D. N. 2412
Walsh, J. R. 4501
Walsh, M. A. 1245
Walsh, R. C. 4132
Walters, D. R. 2421
Walters, N. E. M. 760
Walther, H. F. 1904, 2431
Walton, J. D. 4889
Wan, S. H. 2053, 3595
Wang, C.-P. 82
Wang, C. S. 2132
Wang, D.-N. 287
Wang, G. 2385
Wang, G. Z. 3076
Wang, H. 3904
Wang, H. C. 4887
Wang, J. W. 1484
Wang, K. 2403
Wang, M. 4037
Wang, M. C. 3348
Wang, M. Q. 2910
Wang, P. 3827
Wang, Q. 3645
Wang, S. 4780
Wang, T.-M. 3970
Wang, Y.-C. 426
Wang, Y. H. 4903
Wang, Z. 288, 3755, 4045
Wang, Z.-N. 745
Wang, Z. Q. 185
Wangikar, P. D. 669
Wani, P. V. 1019, 1620
Wankar, B. N. 669, 1450
Ward, C. M. 5008, 5018, 5048
Ward, E. W. B. 812, 1288, 1293
Ward, S. 1833
Warner, A. 3775
Warren, H. L. 181
Wasano, K. 4299
Washington, W. S. 2929
Wass, S. N. 2345
Wästerlund, I. 1365
Wastie, R. L. 1160, 1172, 2121, 2616, 3629
Watanabe, M. 1842
Watanabe, T. 657, 1821
Watanabe, Y. 791, 2671
Waterhouse, P. M. 89, 1257
Waters, H. 2077
Waters, L., Jr. 518
Waterworth, H. 593, 1106
Watkins, C. B. 3121
Watkins, P. A. 221
Watling, R. 1830, 2641
Watson, C. E., Jr. 244
Watson, I. A. 4245
Watt, E. 2221
Weathers, L. G. 1854, 3533
Webb, C. 4530
Webb, D. P. 1235
Webb, J. 1554, 1555
Webb, M. J. W. 1851, 5027, 5059
Webb, P. G. 771
Webb, R. E. 3955
Webb, R. R. 3453
Webb, R. S. 2163
Weber, I. 3234
Weber, J. 2124
Weber, K. A. 3089, 3090
Weber, R. 1346
Webster, D. M. 3698
Webster, J. M. 3990
Webster, R. K. 641
Wehner, F. C. 3590, 3591, 4944
Weibel, F. 2318
Weichbrodt, F. 4374
Weidemann, H. L. 2083, 2595, 3070
Weidhaas, J. 4995
Weil, M. K. 1833
Weilenmann, F. 620, 4257
Weingartner, D. P. 3207
Weinhold, A. R. 365
Weinstein, L. I. 4545
Welacky, T. W. 2142
Weller, D. M. 3829
Weller, L. D. 1622
Wellings, C. R. 845
Wells, B. 4124
Wells, H. D. 2755, 3093
Wells, J. M. 1570, 4998
Wells, L. G. 417
Wellso, S. G. 2972
Weltring, K. M. 4514
Welty, R. E. 250, 2028, 3092
Weltzien, H. C. 2371
Welz, G. 3840
Wendt, R. 4995
Wentzel, K. F. 3255
Wenzl, H. 3795
Werner, A. 408, 409
Werner, P. 4131
Wesenberg, D. 3505
Wessel, H. 4805
West, S. H. 486
Westcott, B. 140
Weste, G. 394, 1415, 2871, 2945, 3265
Westen, C. J. Van 3950
Weststeijn, G. 3057
Wetzel, M. M. V. da S. 4221
Wetzler, C. 3978
Wetzstein, H. Y. 3665
Wezenbeek, P. Van 2918, 4213
Whalen, C. H. 21
Wheeler, B. E. J. 4453
Wheeler, R. E. 833
Whiley, A. W. 4378
Whipps, J. M. 1837
Whitbread, R. 2416, 3837
Whitcomb, R. F. 949
White, C. 4176
White, E. M. 1902
White, F. F. 1785, 1787
White, F. H. 2629
White, J. A. 1404
White, J. B. 2155
White, J. F. 2389
White, J. G. 4554, 5014
White, J. L. 2952
Whiteside, J. O. 206, 1971
Whitlock, R. 3097
Whitmore, M. E. 971, 3082
Whitney, E. D. 438, 3309
Whitney, G. 1693
Whittenbury, R. 2762
Whittington, W. J. 2686
Whittle, A. M. 746
Whitwell, J. D. 517
Wick, R. L. 4020
Wicker, E. F. 2663
Wickizer, S. L. 2692
Wickliff, J. L. 1309
Wicklow, D. T. 534
Wicks, T. 295, 296, 4959
Wicks, T. J. 1515, 1558, 3914

Wicks, T. L. 4941
Widdowson, F. V. 150, 1878
Widin, K. D. 3704
Wiedemann, W. 3615, 4416
Wieringa-Brants, D. H. 4426
Wiese, M. V. 536, 1442, 1449
Wiesner, K. 4032
Wiik, L. 4264
Wilbert, S. 4389
Wilcox, M. D. 4484
Wilcoxson, R. D. 2963
Wild, B. L. 1972
Wildermuth, G. B. 4239, 4240
Wilderspin, I. F. 3607
Wildt, P. P. Q. de 687, 2017
Wilhelm, S. 536
Wiliams, T. D. 2392
Wilkes, J. 2176, 2177
Wilkins, P. W. 4923
Will, O. H., III 2848
Willeke, U. 2853, 4514
Willetts, H. J. 1835
Williams, J. C. 810, 1669
Williams, N. D. 2398, 2399
Williams, P. H. 13
Williams, R. J. 182, 2450, 4284, 4893
Williams, R. N. 278
Williams, R. R. 4354, 4355, 4356
Williams, T. M. 3268
Williams, W. T. 1238
Williamson, B. 1118, 1120, 3580
Williamson, C. J. 1255
Williamson, D. 2195
Willis, C. B. 2367
Willis, W. G. 1430, 2791
Willmitzer, L. 854, 2140
Wills, R. B. H. 1129, 2550, 4361
Wills, W. H. 4488
Wilson, A. C. 2860
Wilson, C. L. 274, 3452
Wilson, F. 3681
Wilson, H. M. 1181
Wilson, J. 4606
Wilson, J. M. 2833
Wilson, K. I. 3650
Wilson, L. 3611
Wilson, P. J. 3248, 4449
Wilson, S. C. 3578, 3579, 5021
Wilson, U. E. 1173, 1176
Wimalajeewa, D. L. S. 3075
Wimpenny, J. W. T. 2762
Windels, C. E. 4114
Winder, J. A. 4578
Windle, B. E. 1558
Wingfield, M. J. 4025
Winiger, F. A. 4409
Wink, R. F. 139
Winkelmann, G. 1169
Winzeler, H. 620
Wisler, G. C. 2018, 3073
Wisłocka, M. 2593, 2601, 3942
Wit, P. J. G. M. de 388
Witcher, W. 421
Witrzens, B. 1991
Wittmann, W. 1074
Wofford, D. S. 244
Wohanka, W. 3915
Wojciechowska-Kot, H. 3485, 3504, 3633
Wölbing, H. 3167
Wolf, G. 2419, 4389
Wolfe, M. S. 1454, 4094, 4265
Wolfe, S. 2852
Wolfgang, H. 3500
Woloshuk, C. P. 3015, 4902
Wolter, K. E. 431
Wolting, H. G. 1417
Woltz, S. S. 2001, 4572
Wong, C. F. J. 4812
Wong, J. A. L. 2259
Wong, P. T. W. 1895
Wong, W. C. 821, 822
Wongkaew, S. 4549
Wood, G. A. 4362
Wood, K. R. 380
Wood, P. M. 2537
Wood, R. 3593
Wood, R. K. S. 1868, 2794, 3213, 3815, 4528
Wood, S. J. 3557, 3560
Wood, T. M. 906
Wood, W. 418
Woodard, K. E. 3708
Woodbridge, W. C. 4331
Woodcock, T. 2930
Woodford, J. A. T. 4970
Woodham, R. C. 1134, 3600
Woodhead, S. H. 2307
Woods, R. D. 4058
Woods, T. A. D. 420
Worker, G. F., Jr. 4496
Worrall, J. J. 1237, 3288, 3292
Woźniak-Strzembicka, A. 2409
Wright, C. E. 1082
Wright, D. M. 3084
Wright, G. 448
Wright, J. E. 1220, 1221
Wright, N. S. 4969
Wrischer, M. 1533
Wrysinski, J. 297
Wu, C. G. 4353
Wu, C. H. H. 1867
Wu, D. K. 1635, 1639
Wu, H. G. 1139
Wu, J. K. 1635
Wu, K. K. 3963
Wu, T. 2538
Wu, W. S. 1867, 2209, 2212, 2724, 4281
Wu, Y. Q. 4939
Wu, Y. R. 4939
Wu, Z. Q. 1500
Wukasch, R. T. 2713
Wullschleger, S. D. 40
Wyatt, G. M. 2120
Wyatt, S. D. 1402
Wylie, F. R. 3663
Wyllie, T. D. 4187
Wyman, J. G. 1704
Wymore, L. A. 386
Wyndaele, R. 5038
Wynn, E. C. 1801, 5049
Wynn, W. K. 3408
Wynne, J. C. 2215
Wyss, U. 91
Xenopoulos, S. 3259
Xi, B. 3801
Xi, Z. 2731, 3691
Xiao, B. Y. 4895
Xiao, Y. 3827
Xie, C. J. 4655
Xie, H. 2378, 2691
Xie, L. 2459
Xie, L. H. 189
Xiong, L. M. 122
Xu, D.-Y. 82
Xu, G. Y. 4887
Xu, L. 1832
Xu, S. 2731, 3691
Xu, S. R. 1500
Xu, Y. 2415
Xu, Z. 2753
Xue, Y. L. 1484
Yadav, B. S. 117, 2390, 2841, 4226
Yadav, J. P. 1951, 4819
Yadav, J. P. S. 908
Yadav, R. K. S. 4680
Yaegashi, H. 2465, 4290
Yagi, T. 3031
Yaklich, R. W. 481
Yakubov, Sh. A. 758
Yakubova, I. V. 3610
Yakuwa, T. 4327
Yalçın, O. 4185
Yamada, M. 1955, 4290
Yamaguchi, H. 809
Yamaguchi, I. 3016
Yamaguchi, T. 1944, 2473
Yamaguchi, Y. 3013
Yamaleev, A. M. 2407
Yamaleeva, A. A. 2407
Yamamori, K. 2420, 4598
Yamamoto, B. T. 3545
Yamamoto, D. T. 1586
Yamamoto, H. 643
Yamamoto, I. 2798, 3005
Yamamoto, M. 575, 784, 1263
Yamamoto, T. 2694
Yamamoto, Y. 4785
Yamamura, H. 1131
Yamanaka, S. 585, 1938, 3013
Yamaoka, N. 784
Yamaya, S. 2471
Yamdagni, R. 3868
Yan, W. Z. 1511
Yanagi, A. A. 3722
Yang, C. Y. 3314
Yang, H. C. 4324
Yang, I.-L. 523
Yang, I. L. 1856
Yang, S. C. 138
Yang, S. M. 3611
Yang, X. 3646
Yanko, U. 4955
Yan'kov, I. I. 2705
Yaoita, T. 3022
Yaraguntaiah, R. C. 3988
Yaroshenko, T. V. 981
Yaskina, O. S. 2781
Yassin, A. M. 513
Yde-Andersen, A. 404
Ye, D. 2753
Yechilevich-Auster, M. 4664
Yeh, C. C. 1717, 4541
Yehia, A. H. 1146, 1211
Yehouessi, M. T. 1993
Yein, B. R. 3711
Yemişçiöglu, Ü. 1051, 1986
Yen, J. M. 915, 916, 917, 918, 3785, 4622
Yi, C. K. 4024
Yi, J. H. 444
Yi, Y. K. 3985
Yıldız, M. 873, 907, 1262
Yılmazdemir, Y. 4252
Ying, S. L. 2817
Yoder, K. S. 271, 1102, 3112
Yoder, O. C. 1486, 2443, 3848
Yokobori, M. 4027
Yokosawa, R. 2334, 2335, 4608
Yokota, S. 5001, 5003
Yokota, S. I. 2663
Yokoyama, T. 3013, 4899
Yoneyama, K. 2265, 2787
Yoo, Y. J. 1289
Yora, K. 1598
Yorgancı, Ü. 1167, 2090, 4437
Yoshikawa, M. 1710, 3347, 3348
Yoshinaga, K. 3863
You, B. Y. 4813
Young, D. H. 2639, 2640
Young, J. C. 4677
Young, J. M. 2554
Young, J. R. 2991
Young, L. D. 485
Younis, M. M. 1240
Youssef, B. A. 2498, 2499, 3880
Ystaas, J. 4359
Yu, B. W. 288
Yu, C. M. 4295
Yu, D. 3511
Yu, G. H. 4666
Yu, I. S. 1205
Yu, Y. H. 1150
Yudkin, L. Yu. 3450
Yuen, J. E. 2230, 3382, 4557
Yumita, T. 2798, 3005
Yuno, I. 1955
Yunus, M. 3542
Zaayen, A. Van 1313, 1314
Zabel, P. 2913
Zabkiewicz, J. A. 417
Zacharius, R. M. 5037
Zad, J. 3024
Zadina, J. 355
Zadoks, J. C. 619
Zainun, W. 1738
Zaitlin, M. 3799, 3800
Zak, J. C. 564, 894, 2828
Zakarashvili, T. N. 4375, 4376
Zakeri, Z. 3024
Zakharova, T. I. 104, 953, 999
Zaki, A. I. 2844
Zambettakis, C. 3044, 4068
Zambonelli, A. 4140
Zamze, S. E. 3570
Zan, K. 3007
Zanette, F. 263
Zaske, S. K. 123
Zateĭkina, G. V. 1187
Zatkyó, L.-né 2700
Zayed, M. A. 1133, 1146, 1295
Zazzerini, A. 3172, 3185
Zederbauer, R. 986
Zehr, E. I. 1573
Zeiders, K. E. 3087, 3893
Zeigler, R. S. 3398
Zeng, S. 3827
Zentmyer, G. A. 536, 2050, 2844, 3414
Zerbetto, F. 311
Zettler, F. W. 226, 3073, 3886, 3887
Zeyen, R. J. 536, 2439, 2985, 3845
Zhan, H. J. 4895
Zhang, C. 2481
Zhang, F. Q. 4666
Zhang, G. F. 4978
Zhang, H. L. 4871
Zhang, J. 2630, 3921
Zhang, J. X. 4655
Zhang, J. Z. 3154
Zhang, L. Z. 3154
Zhang, W. 3827
Zhang, X. 1832
Zhao, J. 1832
Zhao, Z. 2691
Zheng, G. 4045
Zheng, G. Y. 3252
Zheng, L. 2910
Zheng, P. J. 137
Zheng, Q. X. 288, 4035, 4036
Zheng, R. 1394, 1662
Zheng, Y. M. 147
Zherebilo, O. E. 19, 1343
Zhigalkina, T. E. 134
Zhola, I. 1528
Zhou, L. 2754
Zhou, L. G. 1023, 3516, 4685
Zhou, P. Z. 288
Zhu, B. M. 288, 444, 3277
Zhu, K. 4037
Zhu, K. S. 2910
Zhu, L. 1039
Zhu, P. 4037
Zhu, Q. 2459
Zhu, X. K. 4903
Zhu, Y. 2070
Zhu, Y. X. 4406
Zhukov, O. S. 4721
Zhukova, A. E. 2432, 2433
Zhuravlev, Y. N. 3224
Ziegler, H. 2766
Zielinska, L. 4753
Zielinski, A. B. 1834
Zielke, R. 4711
Zilberstein, Y. 3781
Zilkey, B. F. 4425
Zimmermann, F. K. 2766
Zimmermann, H. 854
Zimmermann, U. 1103, 1122
Zink, R. T. 731
Ziogas, B. N. 4610
Zironi, R. 333
Zitelli, G. 4242, 4243
Zitter, T. A. 89
Ziv, O. 2954, 4228
Zobrist, P. 1476
Zoeten, G. A. de 1228
Zogg, H. 4852
Zohar, M. 4301
Zolezzi V., M. 2965
Zote, K. K. 503
Zott, A. 367, 3626, 4421
Zou, X. 2482
Zrouri, M. 2636
Zsolnai, T. 878
Zsuffa, L. 3272
Zuber, M. 201
Zuber, M. S. 1490
Zuidema, D. 3804
Zumelzú, G. 4825
Zummo, N. 3219
Zutra, D. 1524
Zwatz, B. 157, 986, 3844
Zweep, P. Van der 1230

SUBJECT INDEX

The names of fungi and bacteria used in the Subject Index are kept in line with the International Codes of Botanical and Bacteriological Nomenclature and with current taxonomic opinion. Whenever the perfect state of a fungus is known and generally accepted the name applied to this state is used.

To facilitate entry into the index, a list of some commonly used synonyms and imperfect state names is given below in the left-hand column, with in the right-hand column the name used in the index.

For references to	See under
Alternaria tenuis	*Alternaria alternata*
Armillaria matsutake	*Tricholoma matsutake*
Armillariella mellea	*Armillaria mellea*
Ascochyta chrysanthemi	*Didymella chrysanthemi*
A. imperfecta	*Phoma medicaginis*
A. pinodes	*Mycosphaerella pinodes*
Bipolaris sorokiniana	*Cochliobolus sativus*
Boletus luteus	*Suillus luteus*
Botryotinia fuckeliana	*Sclerotinia fuckeliana*
Botrytis gladiolorum	*S. draytonii*
B. squamosa	*S. squamosa*
Brunchorstia pinea	*Gremmeniella abietina*
Calonectria nivalis	*Fusarium nivale*
Cephalosporium acremonium	*Hymenula cerealis*
Cephalosporium gregatum	*Phialophora gregata*
Cercospora arachidicola	*Mycosphaerella arachidis*
C. cruenta	*M. cruenta*
C. personata	*M. berkeleyi*
Cercosporella herpotrichoides	*Pseudocercosporella herpotrichoides*
Cladosporium effusum	*Cercospora effusa*
Cladosporium fulvum	*Fulvia fulva*
Clasterosporium carpophilum	*Stigmina carpophila*
Clitocybe tabescens	*Armillaria tabescens*
Coccomyces hiemalis	*Blumeriella jaapii*
Colletotrichum atramentarium	*Colletotrichum coccodes*
C. coffeanum	*Glomerella cingulata*
C. falcatum	*G. tucumanensis*
C. gloeosporioides	*G. cingulata*
Coniophora cerebella	*Coniophora puteana*
Corticium solani	*Thanatephorus cucumeris*
Cryptosporella viticola	*Phomopsis viticola*
Curvularia lunata	*Cochliobolus lunatus*
Cylindrocarpon destructans	*Nectria radicicola*
Cylindrosporium concentricum	*Pyrenopeziza brassicae*
Cytospora cincta	*Valsa cincta*
Darluca filum	*Eudarluca caricis*
Didymella pinodes	*Mycosphaerella pinodes*
Diplodia gossypina	*Botryodiplodia theobromae*
D. theobromae	*Botryodiplodia theobromae*
Diplodia zeae	*Diplodia maydis*
Dothidella ulei	*Microcyclus ulei*
Dothistroma pini	*Scirrhia pini*
Drechslera erythrospila	*Pyrenophora erythrospila*
Drechslera maydis	*Cochliobolus heterostrophus*
D. oryzae	*C. miyabeanus*
D. teres	*Pyrenophora teres*
Epicoccum nigrum	*Epicoccum purpurascens*
Erwinia aroideae	*Erwinia carotovora* ssp. *carotovora*
E. atroseptica	*E. carotovora* ssp. *atroseptica*
Erysiphe polygoni (on beet)	*Erysiphe betae*
Fomes annosus	*Heterobasidion annosum*
F. applanatus	*Ganoderma applanatum*
F. lignosus	*Rigidoporus lignosus*
F. pinicola	*Fomitopsis pinicola*
Fusarium chlamydosporum	*Fusarium fusarioides*
F. coeruleum	*F. solani var. coeruleum*
F. decemcellulare	*Calonectria rigidiuscula*
F. graminearum	*Gibberella zeae*
F. javanicum	*Fusarium solani*
F. moniliforme	*Gibberella fujikuroi*
F. redolens	*Fusarium oxysporum* var. *redolens*
F. roseum var. *culmorum*	*F. culmorum*
F. roseum var. *graminearum*	*Gibberella zeae*
F. sambucinum	*G. pulicaris*
F. stilboides	*G. stilboides*
F. sulphureum	*G. cyanogena*
Fusicladium effusum	*Cercospora effusa*
Ganoderma pseudoferreum	*Ganoderma philippii*
Gloeosporium album	*Pezicula alba*
G. ampelophagum	*Elsinoë ampelina*
G. musarum	*Colletotrichum musae*
G. perennans	*Pezicula malicorticis*
Helminthosporium atrovirens	*Helminthosporium solani*
H. bromi	*Pyrenophora bromi*
H. carbonum	*Cochliobolus carbonum*
H. dictyoides	*Pyrenophora dictyoides*
H. gramineum	*P. graminea*
H. incurvatum	*Drechslera incurvata*
H. maydis	*Cochliobolus heterostrophus*
H. nodulosum	*C. nodulosus*
H. oryzae	*C. miyabeanus*
H. rostratum	*Setosphaeria rostrata*
H. sacchari	*D. sacchari*
H. sativum	*Cochliobolus sativus*
H. setariae	*C. setariae*
H. siccans	*Drechslera siccans*
H. sigmoideum	*Magnaporthe salvinii*
H. sorokinianum	*Cochliobolus sativus*
H. tetramera	*Drechslera tetramera*
H. tritici-repentis	*Pyrenophora tritici-repentis*
H. turcicum	*Setosphaeria turcica*
H. vagans	*Drechslera poae*
H. victoriae	*Cochliobolus victoriae*
Higginsia hiemalis	*Blumeriella jaapii*
Hypoxylon pruinatum	*Hypoxylon mammatum*
Isariopsis griseola	*Phaeoisariopsis griseola*
Leptosphaeria salvinii	*Magnaporthe salvinii*
Macrophomina phaseoli	*Macrophomina phaseolina*
Marasmius perniciosus	*Crinipellis perniciosa*
Melampsora larici-tremulae	*Melampsora populnea*
M. pinitorqua	*M. populnea*
Merulius lacrymans	*Serpula lacrimans*
Monilia fructicola	***Monilinia fructicola***
M. fructigena	***Monilinia fructigena***
M. laxa	***Monilinia laxa***
Mycosphaerella citrullina	*Didymella bryoniae*
M. ligulicola	*D. chrysanthemi*
Neofabraea perennans	*Pezicula malicorticis*
Neovossia barclayana	*Tilletia barclayana*
N. horrida	*T. barclayana*
Nigrospora oryzae	*Khuskia oryzae*
Oospora citri-aurantii	*Geotrichum candidum* var. *citri-aurantii*
Ophiobolus graminis	*Gaeumannomyces graminis*
Pectobacterium aroideae	*Erwinia carotovora* ssp. *carotovora*
P. carotovorum	*E. carotovora* ssp. *carotovora*
P. carotovorum var. *atrosepticum*	*E. carotovora* ssp. *atroseptica*
Pellicularia sasakii	*Corticium sasakii*
Peridermium harknessii	*Endocronartium harknessii*
Peronospora pisi	*Peronospora viciae*
Phoma betae	*Pleospora betae*
P. foveata	*Phoma exigua*
P. lingam	*Leptosphaeria maculans*
P. solanicola	*Phoma exigua*
P. tracheiphila	*Deuterophoma tracheiphila*
Phomopsis citri	*Diaporthe citri*
P. mali	*D. perniciosa*
Physalospora obtusa	*Botryosphaeria obtusa*
Phytophthora parasitica	*Phytophthora nicotianae* var. *parasitica*
Plasmopara helianthi	*Plasmopara halstedii*
Pleospora bjoerlingii	*Pleospora betae*

For references to	See under
Polyporus hispidus	*Inonotus hispidus*
Poria weirii	*Inonotus weirii*
Pseudomonas cerasi	*Pseudomonas syringae* pv. *syringae*
P. holci	*P. syringae* pv. *syringae*
P. vignae	*P. syringae* pv. *syringae*
Puccinia glumarum	*Puccinia striiformis*
P. penniseti	*P. substriata* var. *penicillariae*
P. triticina	*P. recondita*
Pullularia pullulans	*Aureobasidium pullulans*
Ramularia areola	*Ramularia gossypii*
Rhizoctonia bataticola	*Macrophomina phaseolina*
Rhizopus nigricans	*Rhizopus stolonifer*
Scleroderris lagerbergii	*Gremmeniella abietina*
Sclerospora macrospora	*Sclerophthora macrospora*
S. rayssiae	*S. rayssiae*
Sclerotinia fructicola	*Monilinia fructicola*
S. fructigena	*M. fructigena*
S. laxa	*M. laxa*
Sclerotium bataticola	*Macrophomina phaseolina*
S. oryzae	*Magnaporthe salvinii*
Septoria apii-graveolentis	*Septoria apiicola*
S. avenae	*Leptosphaeria avenaria*
S. nodorum	*L. nodorum*
S. tritici	*Mycosphaerella graminicola*
Sorosporium holci-sorghi	*Sphacelotheca reiliana*
S. reilianum	*S. reiliana*
Sphaeropsis malorum	*Botryosphaeria obtusa*
Sphaerotheca humuli	*Sphaerotheca macularis*
Stemphylium botryosum	*Pleospora herbarum*
S. radicinum	*Alternaria radicina*
Tilletia tritici	*Tilletia caries*
Trametes versicolor	*Coriolus versicolor*
Trichoconis padwickii	*Alternaria padwickii*
Trichoderma lignorum	*Trichoderma viride*
Uromyces fabae	*Uromyces viciae-fabae*
U. phaseoli	*U. appendiculatus*
Ustilago kolleri	*Ustilago hordei*
U. levis	*U. hordei*
U. tritici	*U. nuda*
U. zeae	*U. maydis*
Ustulina zonata	*Ustulina deusta*
Verticillium malthousei	*Verticillium fungicola*
Whetzelinia sclerotiorum	*Sclerotinia sclerotiorum*
Xanthomonas oryzae	*Xanthomonas campestris* pv. *oryzae*
X. oryzicola	*X. campestris* pv. *oryzicola*

SUBJECT INDEX

ABA, activity, *Erysiphe graminis,* barley 4266
Abacarus hystrix, transmission, ryegrass mosaic virus 1544, 1545
Abies alba
fluorine, damage 1666
Gremmeniella abietina, Japan 5001
Nectria radicicola
auxins 1665
cytokinins 3291
gibberellins 1665
Phytophthora
isolation 1236
root rots 1236
Abies amabilis, *Phytophthora,* Oregon 414
Abies balsamea
decay fungi
electrical resistance 4023
susceptibility 4023
injuries, responses 3285
Abies concolor
Cytospora abietis
environmental factors 3290
pathogenicity 3290
Fusarium oxysporum, California 2171
Heterobasidion annosum
host specificity 3288
responses 3292
mycorrhizas
environmental factors 2292
USA 2292
wetwood 1237
Abies fraseri
Phytophthora cinnamomi
control 4476
environmental factors 3666
infection 3666
Abies magnifica
Cytospora abietis, infection 4475
Fusarium oxysporum, California 2171
Abies nobilis, *Phytophthora megasperma,* morphology 2890
Abies procera, *Phytophthora,* Oregon 414
Abies sachalinensis, *Gremmeniella abietina,* Japan 5001
Abies sibirica
Melampsorella caryophyllacearum
control 415
symptoms 415
Acacia dealbata
Armillaria
Australia 396
morphology 396
Armillaria luteobubalina
Australia 396
morphology 396
Acacia koa, *Gloeocoryneum hawaiiense,* Hawaii 4012
Acalymma vittatum, injury, Cucurbitaceae 446
Acari, transmission, *Cryphonectria parasitica* 4995
Acaulospora
clover, mycorrhizas 1366
keys 553
soil 2297
Acaulospora bireticulata, spread 566
Acaulospora foveata
Central America 51
hosts 51
Mexico 51
Acaulospora laevis
clover, mycorrhizas 3775
soyabeans, mycorrhizas 59
Acaulospora spinosa
Ageratum houstonianum, mycorrhizas 1368
Capsicum, mycorrhizas 1368
Acaulospora tuberculata
Central America 51
hosts 51
Acer
Verticillium dahliae
environmental factors 2160
growth 2160
Acer pseudoplatanus
Cryptostroma corticale
UK 4453
variations 4453
fungi
necrosis 397
UK 397, 3256
reports 2254
Aceria cajani, transmission, pigeon pea sterility mosaic virus 2223
Aceria tulipae, transmission, viruses, grasses 1540
Acetaldehyde, control, potatoes, bacterial diseases 2120
Acetylenic alcohols
activity, fungi, crops 2288
control, *Sphaerotheca fuliginea,* cucumbers 2288
Acholeplasma laidlawii, relationships 4217
Acid rain
Connecticut, environmental factors 2772
reviews 4108
Acorus calamus
Uromyces acori
hyperparasitism 344
India 344
Acremonium
clover 4929
maize 171
Acremonium coenophialum, grasses 81
Acremonium sclerotigenum, maize 4679
Acremonium strictum, maize 4679
Acremonium typhinum, grasses 81
Acridine, inhibition, *Pseudomonas pisi* 2141
Acrosporium, *Ipomoea fistulosa* 4829
Acrylcoat, spreaders 652
Actidione, control, *Gymnosporangium haraeanum, Juniperus* 3912
Actinidia chinensis
bacteria, freezing 1783
Botrytis cinerea
control 3920
Italy 3920
Phytophthora, soil conditions 290
Rhizoctonia solani, control 1527
Sclerotinia sclerotiorum
control 2561
New Zealand 2561
storage decay
California 3596
control 1132
Actinomycetaceae
antagonism
Laccaria laccata 4848
Phytophthora 4848
Pythium 4848
Venturia inaequalis 3110
Actinomycin D
activity
beans (*Phaseolus*) 2710
Chenopodium amaranticolor 4207
Glomus caledonium 4607
tobacco mosaic virus, tobacco 4765
turnip yellow mosaic virus 4641
tobacco mosaic virus, tobacco 3645
Aculodes dubius, transmission, ryegrass mosaic virus 1544
Acylalanine
control, *Peronosclerospora sacchari,* sugarcane 3965
laboratory tests, *Fusarium oxysporum* 3811
Acylalanines, fungicide tolerance, *Phytophthora infestans* 4596
Acyrthosiphon pisum
transmission
bean yellow mosaic virus 1085, 3796
pea enation mosaic virus 942, 2203
pea streak virus 3089
Aecidium meliosmae-pungentis, *Meliosma myriantha* 3280
Aecidium osteospermi, *Chrysanthemoides monilifera* subsp. *monilifera* 840
Aegilops ventricosa
Pseudocercosporella herpotrichoides
infection 3495
respiration 3495
Aegle marmelos, fungicidal properties 3427
Aerial photography
detection, diseases, roots, orchards 4855
diseases
pines 1667
potatoes 356
wheat 4200, 4237
Aerial spraying
control, *Cycloconium oleaginum,* olives 3597
Pseudotsuga menziesii 5006
UK 2275, 4840
Aeschynanthus marmoratus, *Corynespora cassiicola,* pathogenicity 220
Aeschynanthus pulcher, *Corynespora cassiicola,* pathogenicity 220
Aesculus californica, leaf necrosis, measurement 3453
Aessosporon salmonicolor, classification 1395
Aflatoxins
maize 1428
sorghum 1919
wheat 1428
Africa
crops, diseases 3735, 3736
maize, maize streak virus 1910
wheat, *Puccinia graminis* 4245
Agaricales, mycorrhizas 2820
Agaricus (see Mushrooms)
Agathis australis, *Lophodermium agathidis,* New Zealand 4195
Ageratum conyzoides, fungicidal properties 1946
Ageratum houstonianum
fungicidal properties 4821
mycorrhizas, environmental factors 1368
Agricultural chemicals, tests 3472
Agrimycin
activity, coconuts 3197
control, *Colletotrichum capsici, Capsicum* 1751
Agrimycin 100
control
Xanthomonas campestris pv. *citri,* oranges 1046
Xanthomonas campestris pv. *malvacearum,* cotton 1523
Xanthomonas campestris pv. *phaseoli, Vigna radiata* 5047
Xanthomonas campestris pv. *vesicatoria, Capsicum* 1752
Agrobacterium
isolation 3747
octopine 1345
soil 3747
Agrobacterium radiobacter
asparagus 2783
biochemistry 16
control
Agrobacterium tumefaciens
Carya pecan 3270
cherries 3576
serology 2782
Agrobacterium radiobacter* ssp. *radiobacter, serology 4119
Agrobacterium rhizogenes
Nicotiana glauca 1785
tobacco 3986
Agrobacterium tumefaciens
adhesion 538
asparagus 2783
beans (*Phaseolus*) 1340
beet 780
binding sites 2267
biochemistry 16, 860
Bryophyllum calycinum 1784
Catharanthus roseus 3746, 3750, 4117
cellulose 3749
cherries 3576
cotton 1524
cowpeas 1303
cucumbers 4049
Datura innoxia 4837
enzyme activity 1784
flax 4118
fruit 3094
genetics 2268, 2784, 4115, 4589
grapevines 2063, 2575, 3166
hosts 2267
Hyoscyamus muticus 4116

Agrobacterium tumefaciens *contd.*
induced mutations 1787
Kalanchoë 1340, 3745
legislation 4602
molecular biology, books 854
mutants 1338
ornamentals 4002
pecans 3270
physiology 17
plasmids 2784, 3748
potatoes 2123
raspberries 1419
research 4118
reviews 13
serology 1786, 2782
soil 3166
soyabeans 5038
sunflowers 861, 1339, 1340, 3751
tobacco 2140, 2630, 4435
tomatoes 1340
tumours 1337
virulence 1787
Agropyron, mycorrhizas, Wyoming 2294
Agropyron elongatum
barley yellow dwarf virus, tolerance 121
Puccinia graminis, genetics 3824
***Agropyron* mosaic virus,** wheat 1433, 4923
Agropyron repens
Claviceps purpurea, hyperparasitism 3890
Drechslera gigantea, hosts 249
Agropyron trachycaulum
mycorrhizas
fertilizers 894
soil amendments 2828
Agrosan GN
control, radishes, diseases 1688
laboratory tests
Fusarium solani 504
Rhizoctonia solani 504
Sclerotium rolfsii 504
seed treatments
beans (*Phaseolus*) 4804
Lablab purpureus 2743
wheat 1436, 2979
Agrostis
diseases, Victoria 3892
Gaeumannomyces graminis var. *avenae*
Maryland 3547
varietal reactions 3547
Sclerotium rolfsii, control 1541
Agrostis palustris
bacterial diseases, control 242
Sclerotinia homoeocarpa, fungicide tolerance 4338
Agrostis stolonifera, diseases, Victoria 3892
Agseal, control, *Chondrostereum purpureum,* stone fruits 3914
Ailanthus excelsa, *Oidium ailanthi,* taxonomy 2897
Air pollution
acid rain
Connecticut 2772
reviews 4108
conferences 851
damage
Aesculus hippocastanum 4002
apples 3565
culinary herbs 4394
Fagus 3257
forest trees 3254, 3255
grasses 971
Jasminum 3542
larch 1219
Lolium perenne 2526, 2527
oak 4015
pines 419, 1238, 4026, 4027, 4451, 4477
trees 971, 4003, 4004, 4005, 4006, 4007, 4451
plant pathogens, interactions 2262
Air spora
deposition 4588
India 187, 2876
barley 153
Capsicum 2750
groundnuts 1723
pigeon peas 4817
vegetables 2765
Vigna mungo 1733
pines 1672
Uttar Pradesh 2878
Aira caryophyllea, barley yellow dwarf virus, indicator plants 2353
Ajuga reptans, viruses, Australia 3060
Akaropeltopsis, avocados 3590, 4945
Alabama, pines, *Gibberella fujikuroi* var. *subglutinans* 1669
Alar, control, guavas, storage decay 3144
Alaska
crops, *Coprinus psychromorbidus* 4670
Salix rotundifolia, mycorrhizas 1811
Alberta
crops, *Coprinus psychromorbidus* 4670
lucerne
diseases 1089
fungi 4710
pulses, diseases 1269
rape, *Sclerotinia sclerotiorum* 4787
rye, *Urocystis occulta* 2435
Albizia odoratissima, *Sphaerophragmium acaciae,* India 4021
Albuginaceae, Ukrainian SSR, hosts 3447
Albugo
hosts 75
USSR 75
Albugo bliti, *Amaranthus albus* 75
Albugo candida
Brassica 1
hosts 75
radishes 1254, 2281, 3737, 4040
Albugo chardoni, *Cleome spinosa* 75
Albugo occidentalis, spinach 3678
Albugo tragopogonis* var. *tragoponi, hosts 75
Alder (see *Alnus*)
Aldicarb
activity, potatoes, diseases 1617
soil treatments 2076
Alfalfa (see also Lucerne)
Alfalfa mosaic virus
Ajuga reptans 3060
Capsicum 3737, 4567
Cicer arietinum 2737
clover 4859
cowpeas 2216, 2911, 4074
hosts 599, 2025
lucerne 694, 2025, 3090, 4859
Melilotus neapolitania 4567
mutants 944, 3802
Nicotiana glutinosa 4859
Pachysandra terminalis 1536
RNA 602, 3548, 3804
taxonomy 3802
Aliette
activity, Peronosporales 2801
control
avocados, storage decay 3589
Ceratocystis paradoxa, sugarcane 2131
Phytophthora cactorum, strawberries 3915
Phytophthora palmivora
aranda 4701
cocoa 1869
radishes, diseases 1254
Allium
Sclerotium cepivorum
infection 2747
sclerotia 2747
stimulation 2747
Allium cepa (see Onions)
Allium porrum (see Leeks)
Allium sativum (see Garlic)
Almonds
Eutypa armeniacae
Australia 4863
Greece 2555
pruning 2555
Podosphaera tridactyla, Italy 4368
Prunus necrotic ringspot virus
detection 2039
pollen 2039
Alnus
Alpova diplophloeus, mycorrhizas 4143
Melampsoridium, classification 76
mycorrhizas, morphology 4143
Alnus glutinosa
Phomopsis alnea
aetiology 4473
Kentucky 4473
Alnus incana, air pollution, damage 971
Alpina zerumbet, bean yellow mosaic virus, relationships 3886
Alpova diplophloeus, *Alnus,* mycorrhizas 4143
Alstroemeria, viruses, UK 1996
***Alstroemeria* mosaic virus,** *Alstroemeria* 1996
Alternaria
Actinidia chinensis 3596
apples 3104
Brassaia actinophylla 218, 2019
Brassica 1
cabbages 1682
Cicer arietinum 3716
cotton 675
cowpeas 3709
cucumbers 449
grapevines 308
kale 5011
oranges 1042
peaches 4939
rice 2461, 3010
rye 3843
Schefflera arboricola 2019
soil 4222
sorghum 186, 3512
tobacco 3220
trees 4013
Vaccinium corymbosum 3577, 4372
weeds 5011
wheat 2978
Alternaria alternata
activity, soil fungistasis 2864
Anigozanthos 221
apples 3905
barley 3833, 4272, 4668
Calathea 225
Cannabis sativa 1597
Capsicum annuum 2245
Cassia obtusifolia 1413
Corchorus aestuans 1413
Cymbopogon martini var. *motia* 341
date palms 2078
Eclipta alba 2585
Eucalyptus 4778
faba beans 1269
hops 3927
laboratory tests
antifungal agents 4133
fungicides 2795
phenylthiourea 34
plant extracts 1361
pollen 2802
larch 1219
maize 4672
mangoes 4955
oranges 2493
Paspalum scrobiculatum 1924
passion fruit 1589
peas 1269, 1698
physiology 1386
potatoes 1620
radishes 1688, 4040
raspberries 1579
safflower 3172
senna 4744
sesame 4740
soil 4222
soyabeans 491
Tephrosia purpurea 1413
tobacco 3220, 4763
tomatoes 3237
Verbena 4334
Vigna radiata 1309
wheat 127, 1436
Alternaria brassicae
Brassica 2685, 5012
cabbages 5011
Cheiranthus cheiri 1530
Indian mustard 1687, 3313
ozone, responses 1374
Alternaria brassicicola
Brassica 2685, 5012
cabbages 5011, 5017
Cicer arietinum 1735
Indian mustard 1687
inhibitors 903
laboratory tests 903
Alternaria carthami, safflower 339, 3172, 4739, 4963
Alternaria cheiranthi, *Cheiranthus cheiri* 1530
Alternaria cichorii
physiology 2320
sporulation 2320
Alternaria citri
citrus 3863

Alternaria citri *contd.*
oranges 1974
Alternaria crassa
Datura candida 923, 1152
ornamentals 923
weeds 923
Alternaria cucumerina, cantaloupes 3321
Alternaria dauci, carrots 2689
Alternaria helianthi
Helianthus 3611
hosts 3935
sunflowers 3181, 3184, 3611, 3935, 4403
Alternaria hibiscinum, *Hibiscus esculentus* 2751
Alternaria kikuchiana, polyoxin B 4598
Alternaria longipes, tobacco 1630, 1637, 1638, 1639
Alternaria padwickii, rice 1501, 1507, 4897, 4898
Alternaria palandui, laboratory tests 3445
Alternaria panax
Brassaia actinophylla 3074, 4918
Polyscias fruticosa 3074
Schefflera arboricola 3074, 4918
Alternaria porri
garlic 516
laboratory tests, fungicides 4084
onions 515, 3386, 4564, 4824
physiology 4824
Alternaria raphani, *Iberis amara* 2010
Alternaria ricini, *Ricinus communis* 2578
Alternaria sesami, sesame 728
Alternaria sesamicola, sesame 4398
Alternaria solani
Capsicum 4828
coumarins 4600
laboratory tests
antifungal agents 2803
drugs 1358
fungicides 3420
pollen 1357
potatoes 356, 610, 1619, 1620, 2366, 3635, 4972
tomatoes 610, 758, 1210, 2366, 3244, 3453, 3655, 4030, 4441, 4442, 4990
Alternaria tenuissima
groundnuts 1299
physiology 62
Alternaria tomato, sporulation 2839
Alternaria triticina, wheat 1450
Alternaria zinniae, sunflowers 1609
Aluminium, phytotoxicity, wheat 118
Aluminium ethylphosphite
activity 3423
Peronosporales 2801
control
avocados, storage decay 3589
Ceratocystis paradoxa, sugarcane 2131
Guignardia bidwellii, grapevines 334
Peronospora sparsa, boysenberry 4377
Phytophthora, Calceolaria 1062
Phytophthora cactorum, strawberries 3915
Phytophthora cinnamomi, avocados 3593, 4949, 4951, 4953
Phytophthora fragariae, strawberries 1125
Phytophthora palmivora
aranda 4701
cocoa 1869
Phytophthora syringae, apples 3563
Plasmopara viticola, grapevines 295, 1137, 3601
Pseudoperonospora humuli, hops 1595
radishes, diseases 1254
Aluminium phosphide
seed treatments
rice 3818
wheat 3818
Alysicarpus monilifer, *Uromyces alysicarpi,* India 4831
Amanita
pines, mycorrhizas 4142
poplars, mycorrhizas 4142
Amanita muscaria
pines, mycorrhizas 43
trees, mycorrhizas 4606
Amaranthus
Pythium
Brazil 4224
damping off 4224
Amaranthus albus, *Albugo bliti,* USSR 75
Amaranthus **leaf mottle virus**
geography 4638
hosts 4638
Amaranthus retroflexus, *Polymyxa betae,* Nebraska 435
Amaranthus spinosus
Diaporthe phaseolorum, infection 5035
tobacco bushy-top virus, infection 3979
Amaryllis, viruses, detection 1526
Amelanchier, *Spilocaea amelanchieris,* New Zealand 1412
American hop latent virus
hosts 2064
relationships 1844
American plum line pattern virus, *Prunus* 2040
Amerosporium circinata, roses 1538
2-Aminobutane
control
Phoma exigua var. *foveata,* potatoes 2103
Polyscytalum pustulans, potatoes 2103
Ammonia, soil treatments 4238
Ammonium nitrate, control, *Blumeriella jaapii,* cherries 3574
Amoebae
interactions
Cochliobolus sativus 4229
fungi 583
Amomum subulatum, viruses, India 1598
Ampelomyces quisqualis
control, *Sphaerotheca fuliginea,* cucumbers 447
enzymes 4178
hyperparasitism, *Sphaerotheca fuliginea* 789, 2696, 4505
triadimefon 2284
Amphiporthe leiphaemia, oak 4015
Amphorophora rubi, transmission, raspberry mosaic virus 4722
Amylosporus wrightii, forest trees, Argentina 2650
Ananas comosus (see Pineapples)
Andhra Pradesh
Carum copticum, seedborne fungi 4736
Coriandrum sativum, seedborne fungi 4736
crops, diseases 1766
weeds, diseases 1766
Andropogon gayanus, diseases, Colombia 2521
Anemone
Colletotrichum acutatum, biology 1999
Erysiphe ranunculi, biology 1999
Glomerella cingulata
control 1060
isolation 3061
Leptothyrium anemones, Portugal 2875
Tranzschelia discolor, hosts 2944
Anemone nemorosa, diseases, German Federal Republic 4580
Anhydrous ammonia, toxicity, *Phymatotrichopsis omnivora* 543
Anigozanthos
Alternaria alternata
control 221
Western Australia 221
Anilazine
control
Glomerella cingulata, coffee 1981
Septoria apiicola, celery 2690
tobacco, diseases 3220
Antarctica, mycorrhizas 4146
Anthium dioxcide, control, potatoes, bacterial diseases 2120
Anthonomus grandis, transmission, fungi, cotton 675
Anthostomella rhemii, pines 4485
Anthoxanthum **latent blanching virus,** *Anthoxanthum odoratum* 1549
Anthoxanthum odoratum
Anthoxanthum latent blanching virus
characteristics 1549
UK 1549
Antibiotic F, control, *Alternaria citri,* oranges 1974
Antibiotics
activity
cloves 4737
nectarine eastern X-disease 1571
peach eastern X-disease 1571
agriculture, reviews 2265
Antibiotics *contd.*
control, *Erwinia amylovora,* apples, pears 1566
industries, reviews 3762
Streptomyces graminearus 4666
Antigonon leptopus, *Oidium antigononii,* India 222
Antimycin A, control, *Puccinia graminis,* wheat 134
Antirrhinum, *Puccinia antirrhini,* control 878
Antracol
control
Hemileia vastatrix, coffee 1979
Setosphaeria rostrata, tomatoes 2153
foliar uptake 876
laboratory tests, *Setosphaeria rostrata* 2153
Aphanomyces
beet 3677
peas 2708
Aphanomyces euteiches
peas 848, 1271, 3330, 3689
spore germination 4608
Vicia 3689
Aphanomyces euteiches **f.sp.** ***phaseoli,*** beans (*Phaseolus*) 1275
Aphanomyces raphani, radishes 3312
Aphelandra squarrosa
Corynespora cassiicola
pathogenicity 220
symptoms 2002
Myrothecium, symptoms 2002
Aphids
transmission
barley yellow dwarf virus 1425, 1426, 2950
beet mosaic virus 4634
citrus, viruses 3039
cucumber mosaic virus 1261, 4826
cucumbers, viruses 2693
potato virus Y 4634
tomatoes, viruses 3987
viruses 1401, 2350
Aphis, transmission, radishes, mosaic 3310
Aphis citricola, transmission, soyabean mosaic virus 1285
Aphis craccivora
transmission
bean yellow mosaic virus 3796
cucumber mosaic virus 1261, 4827
groundnut mottle virus 3375
soyabean mosaic virus 1285
Aphis fabae
transmission
artichoke latent virus 1319
beet, viruses 4032
cucumber mosaic virus 1261, 4793
Aphis gossypii
injury, Cucurbitaceae 446
transmission
Capsicum, viruses 2243
cotton blue disease 210
cucumber mosaic virus 595, 1261, 4793
radishes, mosaic 3310
Aphyllophorales, taxonomy 2887
Apion vorax, transmission, broad bean mottle virus 4808
Apium graveolens (see Celery)
Apparatus (see also Techniques)
analysis, fumigants 1349
application
fungicides 1189
pesticides 1796
estimation, air pollution, damage 2526, 2527
experiments, mycorrhizas 4138
forecasting, crops, diseases 2345
incubation, plant pathogens 1836
leaf removal 986
plant pathogens, quarantine 4835
sampling, spores 2413
spore germination 930
testing, spraying equipment 2276
transmission, viruses 2350
trapping
aphids 595
spores 929, 4817
Apple chlorotic leaf spot virus
apples 3102, 3571, 3904
cherries 4369
plums 3571

Apple chlorotic leaf spot virus *contd.*
RNA 3455
Apple latent virus, apples 703, 1098
Apple mosaic virus
apples 703, 1098, 1845
Chenopodium quinoa 1845
detection 3550
serology 3550
Apple rubbery wood virus, apples 703, 1098
Apple stem grooving virus, apples 3102, 3904
Apple stem pitting virus, apples 3904
Apples
Alternaria, incidence 3104
antioxidants, residues 1097
apple chlorotic leaf spot virus
detection 3102
particles 3571
apple stem grooving virus, detection 3102
apple union necrosis and decline
aetiology 3554
New York 3554
Aspergillus flavus, control 3910
bitter pit
control 3122
histochemistry 3120, 3121
Netherlands 2541
bitter spot, cuticles 1568, 2549
Botryosphaeria dothidea
Georgia 1557
host parasite relationships 3564
North Carolina 4935
spore dispersal 4935
Botryosphaeria obtusa
German Democratic Republic 3908
pathogenicity 3908
calyx green end
aetiology 3565
fluoride 3565
Cephalosporium, sources 1091
Coriolus versicolor, control 3117
crumbly breakdown, environmental factors 3114
cultivation, plant protection 1561
Cylindrocarpon lucidum, replant disease 265
Diaporthe perniciosa
New York 700
symptoms 700
dieback
Bulgaria 3553
control 3553
diseases
control 974, 3106, 4713
environmental factors 3105
German Federal Republic 3106
Netherlands 2541
Switzerland 2539
yield losses 3106
Erwinia amylovora
epidemiology 3552
polysaccharides 4936
testing, chemicals 1566
fruiting, fungicides 4356
fungi
control 264
mycorrhizas 56
ovaries 3905
varietal reactions 704
fungicide residues 874, 1093, 1097, 2030
fungicides
activity 3117, 3556
uptake 1100
Gliocladium roseum
control 1559
phenolic compounds 1560
Glomus epigaeum
mycorrhizas 2835
varietal reactions 2835
Glomus mosseae, mycorrhizas, host parasite relationships 3438
Gymnosporangium juniperi-virginianae, control 2369
Helicobasidium mompa, calcium 2547
internal breakdown, control 3122
Jonathan spot, cuticles 1568, 2549
Libertella blepharis, Hungary 4360
Macrophoma
biochemistry 2548, 3909
phenols 3909
varietal reactions 3909
Apples *contd.*
microorganisms, wounds, control 4013
mineral deficiencies, boron 3553
Monilinia fructigena, host parasite relationships 4644
mycorrhizas
growth 3555
nutrition 4158
phosphorus 4157
mycotoxins 1818
Nectria cinnabarina
control 2036
infection 2036
Nectria galligena
control 3116
phytoalexins 3115
Penicillium expansum
control 271
cuticles 2549
Pezicula, control 269, 270
Pezicula malicorticis, control 3551
Phoma violacea, India 4715
Phytophthora
Northern Ireland 961
South Australia 1558
storage decay 961
ultrastructure 1411
Phytophthora cactorum
biological control 2546
control 1564, 3907
environmental factors 4934
inoculation 3562
rootstocks 3562, 4934
varietal reactions 4934
Phytophthora syringae
control 3563
fruit rots 1858
infection 1105, 3562
spore germination 2035
storage decay 3562
Podosphaera leucotricha
Bulgaria 3561
control 267, 268, 702, 872, 1103, 1104, 2033, 3112, 3116, 3560, 4359, 4595
environmental factors 2544
epidemiology 3560
forecasting 1101
Italy 1104
maintenance 2034
microscopy 3452
reviews 3112
susceptibility 3561
testing 4714
USA 3112
varietal reactions 3113, 3561, 4714
pollen, fungicides 4354, 4355
proliferation
aetiology 262
Belgium 261
control 2543
Pythium, environmental factors 3555
Pythium irregulare, replant disease 265
Pythium ultimum, control 1564
replant disease
environmental factors 3555
fungi 265
root rots, layering 263
russeting, plant extracts 272
scald
control 3123
reviews 3118
soft scald, control 2550
storage decay, control 1565, 3563
storage disorders 1096
controlled atmosphere storage 3911
environmental factors 1567
growth regulators 3119
seed germination 4361
tobacco ringspot virus
Canada 3103
grafting 3103
transmission 3103
tomato ringspot virus
detection 1099
epidemiology 260
hosts 3554
New York 3554
pathology 3554
varietal reactions 1099
Valsa ceratosperma
histology 2037
toxins 2038
Apples *contd.*
Venturia inaequalis
antagonists 3110, 4358
biology 706
breeding 3558
Chile 266, 3111
climatic zones 2371
control 702, 705, 709, 2551, 3108, 3109, 3111, 3557, 3559
environmental factors 707, 708, 2032, 2544, 3107
epidemiology 3109, 3557
forecasting 1101, 2545, 2551
France 2545, 2551
fruit 3107
fungicide tolerance 961, 3906, 4357
inoculation 3559
Iran 3109
Israel 3906, 4357
Northern Ireland 961
sources 266
South Africa 3108
testing 3558
USA 3906
USSR 1094
varietal reactions 1094, 3109
Verticillium, sources 1091
viruses
amino acids 2031
biochemistry 1098
China 3904
detection 1845
fertilizers 2031
growth 703
Latvian SSR 1562
nitrate fertilizers 1098
varietal reactions 1562
Apricots
apoplexy, environmental factors 1577
Chondrostereum purpureum, control 3914
dieback
epidemiology 1111
Romania 1111
diseases
control 1112
Romania 1112
frost injury, symptoms 1577
plum pox virus
Italy 3568
pathology 4717
Pseudomonas syringae pv. *syringae*
control 2554
symptoms 1577
Apron, control, *Sclerospora graminicola, Pennisetum typhoides* 1923
Aquathanatephorus pendulus, Eichhornia crassipes 528
***Arabis* mosaic virus**
cucumbers 432, 5021
grapevines 1591
horseradish 432
Lilium tigrinum splendens 3072
Nicotiana 4857
olives 4727
Petunia hybrida 1534
rhubarb 432, 517
roses 1997
Arachis, Puccinia arachidis, resistance 3372
Arachis chacoense, groundnut mottle virus, infection 5040
Arachis hypogaea (see Groundnuts)
Aranda, *Phytophthora palmivora,* control 4701
Araucaria, seed pathology 778
Araucaria angustifolia, seed pathology 778
Araucaria cunninghamii, seed pathology 778
Araucaria heterophylla, seed pathology 778, 779
Arborseal, control, microorganisms, wounds 4013
Arbutus menziesii, mycorrhizas, California 2309
Arceuthobium americanum, Peridermium bethelii, taxonomy 5002
Arctium lappa
burdock stunt viroid, China 2070, 4406
tobacco ringspot virus, identification 3806
Arctium tomentosum, burdock stunt viroid, China 2070, 4406

***Arctostaphylos pungens*, mycorrhizas, California 2309**
Areca catechu
diseases, India 4104, 4407
microflora, rhizosphere 2589
Aretan
control, *Ceratocystis paradoxa*, sugarcane 3218
laboratory tests
Fusarium solani 504
Rhizoctonia solani 504
Sclerotium rolfsii 504
Argentina
citrus, *Xanthomonas campestris* pv. *citri* 1977
cotton, viruses 211
crops, diseases 2756
flax, diseases 4316
forest trees, Aphyllophorales 2650
grapevines, *Botrytis cinerea* 3164
onions, *Pleospora herbarum* 4825
plant diseases 4099
potatoes, potato deforming mosaic virus 2100
radishes, mycorrhizas 4605
sugarcane, *Ustilago scitaminea* 1627
trees, *Ganoderma lucidum* 1221
***Aristastoma camarographioides*, soyabeans 2211**
Arizona
beet, *Pythium deliense* 434
Spiroplasma citri 102
Arkansas
beans (*Phaseolus*), groundnut stunt virus 1403
clover, groundnut stunt virus 1403
rice, *Rhizoctonia solani* 3860
squash, watermelon mosaic virus 2692
Stenotaphrum secundatum, *Panicum* mosaic virus St. Augustine grass decline str. 2529
strawberries
Colletotrichum fragariae 3916
viruses 279
Vaccinium corymbosum, chlorosis 2556
Armenian SSR, grapevines, *Botrytis cinerea* 316
Armillaria
Acacia dealbata 396
Eucalyptus obliqua 396
India 1830
spruce 2254
***Armillaria bulbosa*, trees 4450**
***Armillaria hinnulea*, *Eucalyptus* 3266**
Armillaria luteobubalina
Acacia dealbata 396
Eucalyptus 3266
Eucalyptus obliqua 396
Armillaria mellea
forest trees 4029
Gastrodia elata 231
grapevines 3159
Opuntia ficus-indica 3151
pines 2174
tea 3975
trees 4450, 4775
***Armillaria ostoyae*, trees 4450**
Armillaria tabescens
apples 3105
fruit trees 2542
Geranium 3736
peaches 4364
***Arrhenatherum*, *Xanthomonas campestris* pv. *arrhenatheri*, hosts 241**
***Arrhenatherum elatius*, brome mosaic virus, UK 2528**
Artemisia annua
Bremiella artemisiae-annuae
China 2934
nomenclature 2934
***Arthrobacter*, classification 3752**
Artichoke latent virus, globe artichokes 1319, 3727
Arundinaria gigantea (see Bamboos)
Aryloxyalkanecarboxylic acids
activity
Phytophthora infestans
potatoes 2796
tomatoes 2796
Septoria lycopersici, tomatoes 2796
laboratory tests
Alternaria alternata 2795
Phytophthora infestans 2795
Aryloxyalkanecarboxylic acids *contd.*
laboratory tests *contd.*
Venturia inaequalis 2795
***Asclepias curassavica*, *Phytomonas*, histopathology 2364**
Ascochyta
beans (*Phaseolus*) 4054
cereals 3820
control, *Mycosphaerella pinodes*, peas 794
taxonomy 3449
***Ascochyta agropyrina*, cultures 240**
***Ascochyta avenae*, CMI descriptions 85**
Ascochyta fabae
faba beans 3338, 3701
mycosporin 2840
sporulation 2840
Ascochyta lentis
lentils 2741
Vicia ervilia 2741
Ascochyta pisi
lentils 845
peas 4050, 4509, 4512, 4801
***Ascochyta pteridium*, *Pteridium aquilinum* 3453**
***Ascochyta rabiei*, *Cicer arietinum* 1736, 2371, 2737, 3713, 3717, 3718, 4076, 4816**
***Ascochyta roystoneae*, *Roystonea regia* 2590**
Ascospores, *Sclerotinia trifoliorum* 3894, 3895
Ash (see *Fraxinus*)
Asia
plant diseases, legislation 1808
plant protection 1780
Asparagus
Agrobacterium
aggregations 2783
laboratory tests 2783
asparagus virus II, UK 2179
cucumber mosaic virus, UK 2179
fungi, mycorrhizas 56
Fusarium oxysporum, inoculation 4566
Phytophthora megasperma var. *sojae*
isolation 1748
New Zealand 1748
soil 1748
Puccinia asparagi, varietal reactions 518
Stemphylium vesicarium, aetiology 1747
Asparagus virus II
asparagus 2179
serological relationships 1846
Aspergillus
antagonism
Helminthosporium apattarnae 2958
plant pathogens 1051, 2716
Rhizoctonia solani 1986
barley 3836
Cicer arietinum 817
maize 1428
Pleurotus sajor-caju 4082
potatoes 3945
soil 4424
tobacco 3220
wheat 126, 1428
***Aspergillus aculeatus*, oranges 205, 4305**
***Aspergillus alternata*, laboratory tests, fungicides 4069**
***Aspergillus amstelodami*, rape 2189**
Aspergillus flavus
antagonism, *Verticillium dahliae* 1986
apples 3910
cereals 3818
cocoa 8
groundnuts 4068, 4548
Hibiscus esculentus 1859
laboratory tests 37
bacteria 4188
oranges 1518, 3051
pecans 4998
radishes 4040
sorghum 1919
Vigna radiata 1738
wheat 127
Aspergillus fumigatus
antagonism, *Rhizoctonia solani* 1986
cereals 3818
Vigna radiata 1738
Aspergillus glaucus
cowpeas 2733
spore dispersal 4588
Aspergillus nidulans
fungicide tolerance 3759, 3761
***Aspergillus nidulans* contd.**
onions 1743
Aspergillus niger
cereals 3818
groundnuts 498, 2729, 3365
laboratory tests
benzimidazoles 1356
fungicides 4084
phenylthiourea 34
metabolism, fungicides 545
onions 1743
peaches 1559, 1560
radishes 1688
tomatoes 3243
Vigna radiata 1738
***Aspergillus niveus*, oranges 1518**
Aspergillus ochraceus
antagonism, *Verticillium dahliae* 1986
safflower 1144
Aspergillus parasiticus
oranges 3051
pecans 4998
Vigna radiata 1738
***Aspergillus sulphureus*, antagonism, *Verticillium dahliae* 1986**
***Aspergillus sydowi*, wheat 2959**
Aspergillus terreus
antagonism, *Rhizoctonia solani* 1986
Corticium rolfsii 9
Aspergillus variecolor
antifungal agents 4133
control, *Alternaria alternata*, barley 4668
oranges 1518
***Aspergillus versicolor*, laboratory tests 37**
***Asphodelus tenuifolius*, mycorrhizas 2301**
***Aster*, *Septoria* 2505**
Aster yellows
Callistephus chinensis 4919
Catharanthus roseus 2508, 2509
***Athelia bombacina*, antagonism, *Venturia inaequalis* 4358**
***Athelia fuciformis*, lawns and turf 3081**
***Atriplex suberecta*, sowbane mosaic virus, Australia 5064**
***Aucuba japonica*, *Nectria radicicola*, pathogenicity 2003**
***Aulacorthum solani*, transmission, subterranean clover red leaf virus 1855**
Aureobasidium pullulans
antagonism, *Venturia inaequalis* 3110
enzymes 576
lemons 1044
Aureofungin
control, storage decay, fruit 1559
laboratory tests, *Curvularia eragrostidis* 3917
Aureomycin, laboratory tests, *Corynebacterium michiganense* pv. *michiganense* 3997
Australia
Acacia dealbata, *Armillaria* 396
Ajuga reptans, viruses 3060
almonds, *Eutypa armeniacae* 4863
Atriplex suberecta, sowbane mosaic virus 5064
buildings, *Serpula lacrimans* 2178
Eucalyptus, dieback 3663
Eucalyptus marginata, *Phytophthora cinnamomi* 1657
Eucalyptus obliqua, *Armillaria* 396
faba beans, bean yellow mosaic virus 5031
forests, *Phytophthora cinnamomi* 1415
Fusarium crookwellense, hosts 1831
lucerne, diseases 253
onions
Pseudomonas aeruginosa 5058
Pseudomonas gladioli pv. *alliicola* 5058
pears, *Eutypa armeniacae* 4863
plant diseases, legislation 1807
Prunus salicina, *Eutypa armeniacae* 4863
Richea continentis, *Meloderma richeae* 4195
safflower, diseases 4963
sorghum, sugarcane mosaic virus 178
Viburnum opulus, *Eutypa armeniacae* 4863
wheat
Puccinia graminis 3479, 4245
Puccinia striiformis 4875
Australian Capital Territory, lucerne, alfalfa mosaic virus 694

Austria
barley, barley yellow dwarf virus 157
clover, *Sclerotinia trifoliorum* 3896
garlic, *Helminthosporium allii* 3387
grapevine fanleaf virus 293
lucerne, *Pseudopeziza medicaginis* 3896
tomatoes, bacterial diseases 3998
Uredinales 2363
Avena (see Oats)
Puccinia, host parasite relationships 4275
Puccinia coronata, New South Wales 4274
Puccinia graminis, New South Wales 4274
Avicennia marina*, *Phytophthora operculata, Queensland 1232
Avocado sunblotch viroid
avocados 3584, 3585, 4942
camphor 3584
characteristics 2902
CMI/AAB descriptions 89
Ocotea bullata 3584
Persea schiedeana 3584
Avocados
Akaropeltopsis, aetiology 3590
avocado sunblotch viroid
detection 3585, 4942
hosts 3584
bacterial diseases, South Africa 4954
diseases, control 4945
Dothiorella aromatica, control 3588
Glomerella cingulata
antifungal agents, peel 4943
control 3588
fungicidal properties 2051
Phytophthora cinnamomi
biochemistry 718
calcium 3592
control 1583, 3593, 4378, 4948, 4949, 4950, 4951, 4953
epidemiology 4952
lipids 2844
oospores 2844
reviews 4378
varietal reactions 718
Western Australia 1583
plant extracts, antifungal agents 3591, 4944
postharvest decay, control 4946
Pseudocercospora aromatica, control 4947
Pseudocercospora purpurea, control 3587
sooty blotch
aetiology 3590
control 3588
storage decay
control 1127, 3586, 3589
varietal reactions 3586
Verticillium dahliae
aetiology 3594
Chile 3594
yield losses 3594
Azalea (see *Rhododendron*)
Azolla, manures, rice 4894
Azores, Sclerotiniaceae 914
A6054A, control, *Hemileia vastatrix*, coffee 1979
A6097A, control, *Glomerella cingulata*, coffee 1981
A6097B, control, *Hemileia vastatrix*, coffee 1979
Bacillus
antagonism, plant pathogens 2717
control
Chaetomium olivaceum, mushrooms 2238
Fusarium 110
potatoes 4422
seed treatments, faba beans 2715
Bacillus cereus, control, *Phytophthora palmivora*, cocoa 113
Bacillus megaterium* pv. *cerealis, wheat 1451
Bacillus mesentericus, potatoes 1187
Bacillus mesentericus vulgatus, soyabeans 2728, 3340
Bacillus subtilis
control
Fusarium oxysporum f.sp. *lycopersici*, tomatoes 1211
Phytophthora nicotianae var. *parasitica*, tomatoes 1211
Bacillus subtilis* *contd.
control *contd.*
Phytophthora palmivora, cocoa 113
Pythium debaryanum, tomatoes 1211
Sclerotium cepivorum, onions 3385
tomatoes, damping off 1211
seed treatments, onions 3724
Bacteria
activity, plant pathogens 907
antagonism
Aspergillus flavus 4188
fungi 4188
Gaeumannomyces graminis 1896
Phellinus weirii 4448
barley 3833
books 2777, 2778
classification 1335
control
Moniliophthora roreri, cocoa 2947
Phytophthora cactorum, apples 3907
Pseudomonas solanacearum, potatoes 4982
Thanatephorus cucumeris, rice 1960
cytology, reviews 2766
detection 1341
genetics, reviews 2766
immunofluorescence 1341
Lentinus edodes 3384
morphogenesis, reviews 2766
nomenclature 1332, 1335
books 856
Peperomia 2515
potatoes 350
seed testing, reviews 15
soil 4448
symptoms
IAA 857
plant diseases 857
Bacterial diseases
beans (*Phaseolus*) 2781
control 859
detection 2779
Italy 2779
lupins 2781
Phaseolus 2781
quarantine 2779
resistance 1334
reviews 3415
symptoms 1332, 1333
taxonomy 18
toxins 1333
Bacteriocins, reviews 4836
Bacteriophages, sewage 3416
Bacterium proteamaculans, buckwheat 4645
Bagging, control, storage decay, cherries 3130
Bahrain, date palms, diseases 1155
Bamboos, *Puccinia melanocephala*, Mississippi 3219
Banana bunchy top virus, bananas 283, 3141
Bananas
banana bunchy top virus
eradication 283
Gabon 3141
Cochliobolus spicifer, Egypt 4724
Colletotrichum musae
infection 3143
iron 3143
phytoalexins 3143
Fusarium oxysporum f.sp. *cubense*
control 110
races 4380
soil conditions 110, 721
Taiwan 4380
Guignardia musae, India 105
Mycosphaerella fijiensis
Gabon 719
Panama 4100
Mycosphaerella musicola
control 3142
Ivory Coast 3142
resistance 1128
testing 1128
Phyllosticta musarum
control 4379
Taiwan 4379
postharvest decay, control 284
Trachysphaera fructigena, control 720
Bangladesh
Cicer arietinum, diseases 2737
Bangladesh *contd.*
Echinochloa colona, *Sarocladium oryzae* 1958
rice
Erwinia chrysanthemi pv. *chrysanthemi* 1966
Pyrenochaeta 3524
Sarocladium oryzae 1958
sweet potatoes, storage disorders 4088
Barbarea vulgaris*, *Spiroplasma citri, transmission 3190
Barium polysulphate, control, apricots, diseases 1112
Barley
air spora, India 153
Alternaria alternata
biological control 4668
host parasite relationships 4272
barley stripe mosaic virus
detection 2378, 3499
epidemiology 2951
proteins 2952
protoplasts 3499
resistance 4259
RNA 4209
strains 4209
testing 4258
transmission 2951
varietal reactions 1456
barley yellow dwarf virus
Austria 157
breeding 1457
epidemiology 841
interactions 1872
Italy 3835
pesticides 3832
reviews 3835
varietal reactions 149, 841
barley yellow mosaic virus
Germany 1458
infection 2981
inoculation 2981
survival 1458
UK 1459
brome mosaic virus
enzymes 2980
hosts 977
purification 1550
RNA 2980
Cladosporium, interactions 1872
Cochliobolus sativus
amoebae 4229
cytokinins 117
environmental factors 1475
genetics 4869
infection 2390, 4226
mineral nutrition 2986
pathology 2386
Saskatchewan 4869
toxins 2986
varietal reactions 2386
Curvularia pallescens, India 1005
diseases
breeding 1453, 4260
control 1454, 1899, 4654, 4870
Czechoslovakia 4260
genetics 1454, 2381
Ireland 3478
sporulation 1461
Switzerland 4257
UK 1899, 4654
varietal reactions 4257, 4870
Drechslera, seed 1871
Erysiphe graminis
antifungal agents 639
control 150, 151, 960, 984, 1001, 1004, 1471, 1857, 3501, 3502, 4228
cytology 2420, 2985
development 1469
disease models 2427, 3479, 4667
environmental factors 160
enzymes 2419
epidemiology 3841
Europe 1465
fertilizers 1004
fluorescence 638, 2420
fungicide tolerance 4265
genetics 1463, 1464, 2425, 4880
haustoria 160
histochemistry 1003, 1470
host parasite relationships 841, 1467, 2983, 2985
inoculation 637

Barley *contd.*
Erysiphe graminis contd.
interactions 1468, 4264
mixed cropping 1902
Norther Ireland 1902
pesticides 3832
Poland 2424
proteins 640, 2419
races 2424
resistance 841, 982, 1466, 2423, 2984
roots 2421
senescence 4230
spore dispersal 2426
sporulation 2422
starch 3839
sulphur dioxide 4866
testing 4266
UK 3479, 3501
ultrastructure 1003, 1470
varietal reactions 158, 159, 2419, 2423, 2984, 3501, 3839, 4265
virulence 1465, 1857, 3479, 3840, 3841
water stress 2418
yield losses 979, 1903
fungicides, uptake 1353
Fusarium
China 2385
zearalenone 4653
Fusarium crookwellense, geographical distribution 1831
Fusarium culmorum, environmental factors 2388
Fusarium nivale, yield losses 152
Fusarium roseum, yield losses 152
Gaeumannomyces graminis, testing 2868
Gibberella saubinetii
China 4871
forecasting 4871
Glomus caledonium
mycorrhizas
growth 4842
nutrients 4842
spread 4842
Glomus mosseae
mycorrhizas
host parasite relationships 2298
soil treatments 561
hordatines, fungicidal properties 879
Leptosphaeria nodorum
host parasite relationships 980
Ireland 4271
pathogenicity 1873, 2384, 4231
seed 4271
testing 980
toxins 980
maize rough dwarf virus, symptoms 3834
microflora
fungicides 3833
leaves 1455
storage, environmental factors 3836
mineral deficiencies, molybdenum 4236
mycorrhizas, water relations 2303
Pseudocercosporella herpotrichoides
environmental factors 4230
pathogenicity 4232
varietal reactions 4232
Pseudomonas syringae pv. *atrofaciens,* varietal reactions 4273
Pseudomonas syringae pv. *syringae*
Idaho 3505
symptoms 3505
Puccinia, Cyprus 115
Puccinia graminis
Canada 983
genetics 1460
races 983
Puccinia hordei
control 150, 154
crop loss 154
environmental factors 154
genetics 635, 636, 1462, 1901, 2417
histopathology 1874, 1875, 1901
host parasite relationships 3837
Norway 116
nutrient transport 2416
resistance 155, 1874, 1875, 1901
Texas 155
varietal reactions 2417, 4262, 4263
virulence 635
Puccinia recondita
histopathology 1874
resistance 1874

Barley *contd.*
Puccinia striiformis
culture techniques 156
inoculation 1900
physiology 1002
races 4262
resistance 4261
sporulation 3500
susceptibility 3500
testing 4261
varietal reactions 1900, 4262
Pyrenophora graminea
control 163, 1473, 1904
ethylene 2431
genetics 1472
infection 1904
Montana 1473
resistance 1472
seed testing 161, 2428, 2429
seed treatments 2431
testing 1474
varietal reactions 1474
virulence 1472
Pyrenophora teres
control 164, 1905, 3503
cytology 4881
Egypt 2430
genetics 1460
host parasite relationships 4644
Montana 4267
Morocco 4267
New Zealand 1905
races 2430
seed testing 161, 2428
Tunisia 4267
Turkey 4267
varietal reactions 162, 4267
Western Australia 162
Rhizoctonia solani
host parasite relationships 165
infection 165
Rhynchosporium secalis
control 960, 1001, 1857
environmental factors 984, 3504
fertilizers 3504
mixtures 2957
Poland 3504
resistance 641
spread 2957
toxins 4268, 4269, 4270
virulence 1857
yield losses 3504
rice ragged stunt virus, purification 3853
rickettsias, symptoms 3834
root rots, control 4879
seed treatments 2955
germination 3760
Ustilaginales, breeding 2383
Ustilago nuda
control 2982, 4879
genetics 3838
virulence 3838
Verticillium, interactions 1872
Barley stripe mosaic virus
antigens 594
barley 1456, 2378, 2951, 2952, 3499, 4209, 4258, 4259
cereals 2380
detection 2907
interactions 601
oats 2951
RNA 4208, 4209
strains 4208, 4209
wheat 2378
Barley yellow dwarf virus
Agropyron elongatum 121
barley 149, 157, 841, 974, 1326, 1457, 1872, 2950, 3832, 3835
cereals 114, 689, 1424, 1425, 1426, 2379, 4650, 4652, 4868
characterization 2920
detection 1427
grasses 689, 2379
hosts 2353
Indiana 2920
maize 1424, 1426, 1481
oats 114, 970, 1845, 2950, 4205
purification 2920
rice 1497, 1498
wheat 120, 121, 1432, 1872, 2950, 4237
Barley yellow mosaic virus
barley 1458, 1459, 2981
cereals 3476

Barley yellow mosaic virus *contd.*
soil 1458
transmission 4634
BAS 31700F, soil treatments 65
BAS 43600F, control, *Botrytis cinerea,* strawberries 3582
Basamid, soil treatments 3245
Basella alba, antiviral properties 937
Basic copper sulphate, control, *Mycosphaerella citri,* grapefruits 206
Basidiomycetes
pines, mycorrhizas 45
trees 4013
Basitac, metabolism, rice 3005
Bassia latifolia, fungicidal properties 1936
Bavistin
control
Ceratocystis paradoxa, sugarcane 1196
Colletotrichum capsici, Capsicum 1751
cucumbers, diseases 4046
Erysiphe polygoni, peas 4053
groundnuts, diseases 3284, 3367
Macrophomina phaseolina, sunflowers 1148
Mycosphaerella, groundnuts 4070
Myrothecium roridum, tomatoes 390
oranges, storage decay 4909
Phomopsis phyllanthi, Phyllanthus emblica 3152
Piper nigrum, black berry 1145
Pleurotus sajor caju, weeds, fungi 4082
potatoes, seed tubers, decay 3945
Rhizoctonia solani, potatoes 4756
strawberries, diseases 3136
Tilletia indica, wheat 1891
Xanthomonas campestris pv. *phaseoli, Vigna radiata* 5047
laboratory tests
Aspergillus niger 4084
Corticium sasakii 3858
phytotoxicity, sesame 727
seed treatments
beans (*Phaseolus*) 1703, 4804
groundnuts 4072
jute 2504
Lablab purpureus 2743
sorghum 1919
tomatoes 3993
Vigna radiata 503
wheat 36, 126
Baycor
activity 542
fruit trees 3099
control
avocados, storage decay 3589
Erysiphe cichoracearum
cucumbers 787
sesame 3178
groundnuts, diseases 3284, 3366, 3367
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium juniperi-virginianae, apples 2369
Monilinia laxa, cherries 712
Mycosphaerella, groundnuts 4070
Puccinia arachidis, groundnuts 4070
roses, diseases 686
Venturia inaequalis, apples 702, 705, 3108
Venturia pirina, pears 702
Baycor 200 EC, control, *Uromyces dianthi,* carnations 2507
Baycor 300 EC, control, *Uromyces dianthi,* carnations 2507
Bayer 5072, control, *Phytophthora nicotianae* var. *nicotianae, Elettaria cardamomum* 3930
Bayleton
activity, fruit trees 3099
control
Ceratocystis paradoxa, sugarcane 1196, 3218
cereals, diseases 2387
Cronartium fusiforme, pines 2660
Erysiphe cichoracearum
cucumbers 787
sesame 3178
Erysiphe graminis
cereals 2285
wheat 1443

Bayleton *contd.*
control *contd.*
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium haraeanum, pears 3912
Gymnosporangium juniperi-virginianae, apples 2369
Hemileia vastatrix, coffee 1979
Mycosphaerella graminicola, wheat 141
Piper nigrum, black berry 1145
Podosphaera leucotricha, apples 702, 2033
Puccinia arachidis, groundnuts 4070
Puccinia striiformis, wheat 138
Tilletia indica, wheat 1891
Uncinula necator, grapevines 298, 1592
Ustilago scitaminea, sugarcane 3641
residues, coffee 3870
translocation, grapevines 2061
Bayleton 1 GR, soil treatments 3142
Bayleton paste 2 PA, control, *Nectria galligena,* apples 3116
Bayleton 5WP, control, *Nectria galligena,* apples 3116
Baytan
phytotoxicity, groundnuts 4072
seed treatments
barley 151, 1899
cereals 2387, 2955
Indian mustard 3313
wheat 990
uptake, cereals 2955
Baytan F
seed treatments
maize 3155
wheat 990
Baytan F17, seed treatments, barley 1905
Baytan universal, seed treatments, maize 3155
Bean chlorotic mottle virus, beans (*Phaseolus*) 2756, 4054
Bean common mosaic virus
beans (*Phaseolus*) 796, 799, 800, 2756, 3331, 4054, 4518, 4520, 5027
detection 2907
Vigna radiata 4075
Bean distortion dwarf virus
beans (*Phaseolus*) 3691
hosts 3691
Bean golden mosaic virus, beans (*Phaseolus*) 458, 4054
Bean leaf roll virus, faba beans 4058
Bean mild mosaic virus, beans (*Phaseolus*) 798
Bean mosaico-em-desenho virus, beans (*Phaseolus*) 460
Bean pod mottle virus
Ceratoma trifurcata 4061
RNA 609
soyabeans 474, 3341, 4061
Bean rugose mosaic virus, CMI/AAB descriptions 89
Bean southern mosaic virus
beans (*Phaseolus*) 457, 460, 798, 1273
lipids 1404
Bean southern mosaic virus cowpea strain, structure 3803
Bean yellow mosaic virus
beans (*Phaseolus*) 459, 2709, 4054, 4518, 5026, 5027, 5028
Cicer arietinum 2737
clover 1085, 4927
faba beans 5031
Gibasis geniculata 227
hosts 3886
relationships 3886
saffron 4743
spinach 2679
transmission 3796
Beans (*Phaseolus*)
Agrobacterium tumefaciens, plant tumours 1340
alfalfa mosaic virus, infection 2025
Aphanomyces euteiches f.sp. *phaseoli,* virulence 1275
bacteria
induced resistance 4769
preservation 3696
symptoms 857
bacterial diseases, testing 2781
Beans (*Phaseolus*) *contd.*
bean common mosaic virus
cytoplasmic inclusions 801
enzymes 800
epidemiology 4520
interactions 4518
phenolic content 799
seed transmission 4520
USA 4520
varietal reactions 800, 801, 3331
bean distortion dwarf virus
characteristics 3691
China 3691
bean golden mosaic virus, cytokinins 458
bean mild mosaic virus, interactions 798
bean southern mosaic virus
Brazil 457
interactions 798
strains 1273
bean yellow mosaic virus
genetics 5026
interactions 4518
ultrastructure 2709
varietal reactions 5028
black-eye cowpea mosaic virus, genetics 1700
Botrytis cinerea
phytoalexins 1702
spore dispersal 4527
chlorotic mottle, aetiology 798
clover (red) mottle virus, varietal reactions 3692
Colletotrichum lindemuthianum
Brazil 1278, 1279
Canada 3695
Colombia 2206, 4522, 4524
control 1278, 1279, 4522, 4523
environmental factors 462
enzymes 3332
epidemiology 3695
host parasite relationships 4644
induced resistance 5030
infection 4524
inoculation 3693
phytoalexins 973
races 2206
resistance 973
sources 4524
sulphur dioxide 4866
survival 3695
varietal reactions 2206, 3332
Corynebacterium flaccumfaciens pv. *flaccumfaciens,* varietal reactions 469
cowpea aphid-borne mosaic virus, genetics 1700
cowpea mosaic virus, ultrastructure 2709
cowpea severe mosaic virus
Brazil 461
infection 461
ultrastructure 2709
cucumber mosaic virus
characteristics 4521
interactions 798
RNA 2923
transmission 4521
diethylaminoethanol, damage 2368
diseases
breeding 796
Colombia 4054
control 1701
induced resistance 2939
Kenya 3734
Latin America 4490
Senegal 1793
Erwinia carotovora ssp. *carotovora*
fertilizers 1705
hypersensitivity 1705
Erysiphe cichoracearum
German Federal Republic 4805
symptoms 4805
fungi, control 4804
Fusarium
Bulgaria 4643
enzymes 2204
zearalenone 4225
Fusarium solani f.sp. *phaseoli*
enzymes 466, 5029
Japan 804
soil conditions 804
Gigaspora gigantea, infection 54
Glomus mosseae, mycorrhizas, root systems 48
groundnut stunt virus, Arkansas 1403
Beans (*Phaseolus*) *contd.*
hop latent virus, indicator plants 2064
Indian peanut clump virus, hosts 3361
Macrophomina phaseolina
soil water deficit 2205
sowing depth 803
mineral deficiencies
zinc
Queensland 4057
yield losses 4057
mycorrhizas, water relations 1813
Nectria, enzymes 2204
ozone
damage
breeding 1706
estimation 3699
Ontario 2713
varietal reactions 470, 1281, 2712
yield losses 2713
Phaeoisariopsis griseola
Colombia 2206
control 4523
New Zealand 2932
varietal reactions 2206
phytoalexins 2202
Populus virus, indicator plants 1226
Pseudomonas syringae, bacteriocins 22
Pseudomonas syringae pv. *phaseolicola*
Czechoslovakia 468
genetics 2711
host parasite relationships 805
nodulation 3337
polysaccharides 4528
toxins 805, 3336, 4806, 4839
varietal reactions 2711
Pythium, survival 802
Pythium ultimum
control 2201
virulence 1275
Rhizoctonia solani
biological control 463
Central America 1276
control 1276, 1703, 2201, 4056
Costa Rica 4056
genetics 465
resistance 465
root rot
control 3333
evaluation 3333
Sclerotinia sclerotiorum, reviews 3694
Sclerotium rolfsii, biological control 3418
soil fungi, biological control 4619
soyabean mosaic virus, varietal reactions 3331, 4519
Thanatephorus cucumeris
Argentina 1274
inoculation 4525
testing 4525
yield losses 1274
tobacco mosaic virus
antiviral properties 2710, 4055
EDTA 93
ultraviolet radiation 797
tobacco necrosis virus, phytoalexins 456
tobacco ringspot virus, genetics 5026
tobacco streak virus, hosts 1402
Uromyces appendiculatus
biological control 464
Brazil 1277
chitin 2704
control 1277
cytology 3334
inoculation 4526
interactions 3335
microscopy 4201
spore germination 3334
Uromyces vignae, interactions 3335
viruses
Brazil 460
breeding 459
interactions 460
serology 5027
testing 5027
Xanthomonas campestris pv. *phaseoli*
detection 4529
environmental factors 3697, 3698
genetics 3697
phytoalexins 1704
sulphur dioxide 1280
varietal reactions 3697, 3698
Xanthomonas campestris pv. *vignaeunguiculatae,* symptoms 1728

Beans (*Phaseolus*) *contd.*
Xanthomonas campestris pv. *vignicola*, symptoms 1728
***Beauveria bassiana*,** soil 1826
Bedding plants
Pythium
epidemiology 3059
virulence 108
Rhizoctonia solani, epidemiology 3059
Beech (see *Fagus*; *Nothofagus*)
Beet
Agrobacterium tumefaciens, membranes 780
Aphanomyces, control 3677
beet cryptic virus, antigens 3676
beet curly top virus
serological diagnosis 433
vectors 433
beet mild yellowing virus
breeding 4031
transmission 4493
UK 2676
beet mosaic virus
purification 4784
serological diagnosis 3675
serology 4784
UK 2676
beet necrotic yellow vein virus, transmission 932
beet yellows virus
breeding 4031
enzymes 2674, 2675
forecasting 4492
spread 4492
UK 2676
Ceratobasidium cornigerum, Japan 4495
Cercospora beticola
climatic zones 2371
control 436
mutants 2182
varietal reactions 3307
damping off
Finland 2183
fungi 2183
diseases, protection 3469
Erwinia
resistance 438
susceptibility 438
Erysiphe betae
climatic zones 2371
control 4496
genetics 3309
varietal reactions 3307
yield losses 4496
Erysiphe graminis, susceptibility 1251
Moniliopsis aderholdii
enzymes 3308
phytoalexins 3308, 4494
Pleospora betae
control 3677
symptoms 2184
Polymyxa betae, Nebraska 435
Pythium, control 3677
Pythium aphanidermatum
inoculum 1679
soil 1679
Pythium deliense, Arizona 434
Rhizoctonia
Japan 4495
strains 4495
Rhizoctonia solani
control 3306
epidemiology 1680
Japan 4785
pathogenicity 4785
sclerotia 4785
soil fungistasis 2677
sources 2678
survival 4785
root rots
environmental factors 2673
Japan 2673
Sclerotium rolfsii, pathogenicity 3186
soil fungi, Ireland 3677
viruses
control 4032
propagation 4032
quarantine 2805
reviews 2676
yield losses 4032
Beet cryptic virus, beet 3676
Beet curly top virus
beet 433
Beet curly top virus *contd.*
legislation 4602
Beet mild yellowing virus
beet 2676, 4031, 4493
purification 3463
Beet mosaic virus
beet 2676, 3675, 4032, 4784
transmission 4634
Beet necrotic yellow vein virus
beet 932
spinach 2679
Beet ringspot virus, potatoes 3938
Beet western yellows virus
Capsella bursa-pastoris 4205
lettuce 5048
potatoes 353
transmission 1400
Beet yellows virus
beet 2674, 2675, 2676, 4031, 4032, 4492
RNA 3455
Begonia
Erysiphe cichoracearum, environmental factors 219
Oidium begoniae, control 223
Belgium
apples, proliferation 261
elms, *Ceratocystis ulmi* 3261, 3262, 3263
grasses, *Xanthomonas campestris* pv. *graminis* 690
plant diseases 4101
shallots, viruses 511
wheat, *Leptosphaeria nodorum* 4253
Belladonna mottle virus, hosts 599
***Beltraniella humicola*,** pomegranates 4725
Bemisia tabaci
epidemiology
cowpeas, golden mosaic 3328
Phaseolus lunatus, golden mosaic 3328
transmission
cowpea golden mosaic 3377
cowpea mild mottle virus 3465
Mucuna deeringiana yellow mosaic 2029
mung bean yellow mosaic virus 3711
soyabean crinkle leaf 3703
Benincasia hispida
Fusarium oxysporum, India 3323
Pythium aphanidermatum, India 3323
Beniowskia sphaeroidea*, *Setaria geniculata 1765
Benlate (see Benomyl)
Benodanil
control
Melampsora amygdalinae, *Salix triandra* 1229
Puccinia arachidis, groundnuts 494
Puccinia graminis, wheat 128
Puccinia hordei, barley 150, 154
Puccinia recondita, wheat 128
wheat, diseases 1878
fungicide tolerance, *Phragmidium mucronatum* 2519
soil treatments 65
Benomyl
activity
Alternaria panax
Brassaia actinophylla 4918
Schefflera arboricola 4918
barley 3833
cabbages, black speck 4501
clover, mycorrhizas 2823
Fusarium oxysporum f.sp. *dianthi* 4322
Fusarium solani f.sp. *pisi* 4515
plants 2794
potatoes, tissue cultures 4751
Rhizoctonia solani 2867
soil fungi, rye 3843
soyabeans, fungi 491
tomatoes 2635
Trichoderma 1389
Trichoderma harzianum 581
control
Actinidia chinensis, storage decay 1132
apricots, diseases 1112
avocados
postharvest decay 4946
storage decay 3586, 3589
Botryodiplodia theobromae, grapefruits 2494
Botrytis cinerea
grapevines 315, 323, 3163
Benomyl *contd.*
control *contd.*
Botrytis cinerea contd.
lupins 1090
strawberries 3137, 3582
tomatoes 1646
Botrytis tulipae, tulips 1078
Ceratocystis fimbriata f.sp. *platani*, *Platanus* 406
Ceratocystis paradoxa, sugarcane 3967
Cercospora beticola, beet 436
citrus
blight 1513
diseases 1973
Cochliobolus, *Zizania aquatica* 652
Cochliobolus lunatus, sorghum 186
Colletotrichum lagenarium, watermelons 3319
Colletotrichum lindemuthianum, beans (*Phaseolus*) 4522, 4523
Colletotrichum trichellum, ivy 3071
Colocasia antiquorum, storage decay 4087
Corticium sasakii, rice 2475
cucumbers, diseases 4046
Cylindrocladium heptaseptatum, *Rumohra adiantiformis* 2017
Diaporthe citri, grapefruits 2494
Didymocladium ternatum, mushrooms 2745
Dothiorella aromatica, avocados 3588, 4945
Elsinoë ampelina, grapevines 2058
Elsinoë fawcettii, citrus 1971
Eutypa armeniacae, grapevines 4960
Fulvia fulva, tomatoes 2638
Fusarium oxysporum f.sp. *cepae*, onions 4562
Fusarium oxysporum f.sp. *dianthi*, carnations 4321
Fusarium solani, *Cicer arietinum* 4078
Gibberella fujikuroi, sorghum 186
Glomerella cingulata
Anemone 1060
avocados 3588, 4945
grapevines, diseases 2058
groundnuts, diseases 5041
guava, storage decay 1129
Helminthosporium allii, garlic 3387
Kabatiella caulivora, clover 251
Leptosphaeria coniothyrium, raspberries 1120
Lilium, diseases 230
Monilinia fructicola, peaches 1109, 3572
mushrooms, diseases 4558
Mycosphaerella, groundnuts 4071
Mycosphaerella citri, grapefruits 206
Myrothecium roridum, tomatoes 390
Ophiostoma kubanicum, oak 405
Penicillium digitatum, oranges 1972
Penicillium expansum, apples 271
Pezicula, apples 269, 270
Pezicula malicorticis, apples 3551
Phaeoisariopsis griseola, beans (*Phaseolus*) 4523
Phomopsis vexans, eggplants 3396
Phyllosticta musarum, bananas 4379
Piper nigrum, black berry 1145
Pleiochaeta setosa, lupins 1090
Pleurotus sajor-caju, weeds, fungi 4082
potato virus S, potatoes 4751
potatoes, seed tubers, decay 3945
Pseudocercospora aromatica, avocados 4947
Pseudocercospora purpurea, avocados 3587, 4945
Pseudocercosporella herpotrichoides, wheat 633
Pyrenochaeta lycopersici, tomatoes 3245
Rhabdocline pseudotsugae, *Pseudotsuga menziesii* 776
Rhizoctonia solani, *Cicer arietinum* 4078
Rumohra adiantiformis, postharvest decay 687
Sclerotinia narcissicola, *Narcissus* 1067
Sclerotinia sclerotiorum, *Papaver somniferum* 2577
Septoria apiicola, celery 2690, 5019

Benomyl *contd.*
control *contd.*
Septoria chrysanthemella, Chrysanthemum 4324
Septoria glycines, soyabeans 4809
storage decay
cantaloupes 5022
cherries 3130
strawberries, diseases 3136
urd bean leaf crinkle virus, *Vigna radiata* 1729
Venturia inaequalis, apples 3108, 3109
fungicide tolerance
Botryodiplodia theobromae 1584
Botrytis cinerea 313, 321, 1283, 2151, 2946
Diaporthe citri 1584
Fusarium oxysporum 3057
Glomerella cingulata 1584
Monilinia fructicola 1572, 3572, 4367
Penicillium italicum 3050
Sclerotinia fuckeliana 1794
Sclerotinia homoeocarpa 4338
Stagonospora 3057
Venturia inaequalis 3906, 4357
Verticillium bulbillosum 2236
Verticillium psalliotae 2236
laboratory tests
Capnodium citri 669
Corticium sasakii 3858
Nectria cinnabarina 2036
Pseudomonas syringae 1347
Valsa cincta 1347
residues
apples 1097
Litchi chinensis 3918
seed treatments
beans (*Phaseolus*) 1703
Cicer arietinum 4078
Coix lachryma-jobi 2456
Crotalaria juncea 680
jute 2504
maize 171, 1912, 4277
marrows 4504
peas 454
soyabeans 480, 490, 2209
tomatoes 2146
wheat 36, 990, 2978
soil treatments 230, 1075, 1268, 1894, 3068, 3823, 4185, 4321
usage 1351
Benzimidazoles
control
citrus, blight 1513
Verticillium albo-atrum, Catalpa 1664
fungicide tolerance
Botrytis cinerea 314, 319
Fusarium oxysporum f.sp. *gladioli* 3069
Monilinia fructicola 1573
Penicillium corymbiferum 3069
Penicillium digitatum 1972
plant pathogens 3424
Sclerotinia homoeocarpa 4338
laboratory tests, *Aspergillus niger* 1356
Benzoic acid, tolerance, *Nectria galligena* 2313
Berberis spinulosa
Cumminsiella santa
Brazil 2882
taxonomy 2882
Berberis vulgare
Pseudocercospora berberisvulgarae
Madhya Pradesh 4624
taxonomy 4624
Bercema-bitosen, control, *Erysiphe graminis,* rye 1008
Bercema Demex, activity, potatoes 3952, 4410
Bermuda grass (see *Cynodon dactylon*)
Beta vulgaris (see Beet)
Betel pepper (see *Piper betle*)
Betelnut (see *Areca catechu*)
Betula
air pollution, damage 971
Fusarium avenaceum, Finland 4454
Godronia multispora, Finland 4454
Melampsoridium, classification 76
Betula papyrifera
Inonotus obliquus
decay 1655
discoloration 1655
Betula pendula, mycorrhizas, inoculation 4606
Betula pubescens
fungi
interactions 3258
USSR 3258
Microsphaera, taxonomy 2339
mycorrhizas, inoculation 4606
Bibliographies
Piper betle, diseases 4961
plant diseases, South Africa 2935
seed pathology, Brazil 4221
Bidens formosa, *Sphaerotheca xanthii,* South Africa 4861
***Bidens* mosaic virus,** characteristics 100
Biloxazol
control
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278
cucumbers, diseases 3688
Uromyces dianthi, carnations 2507
Bimuria novae-zelandiae, clover 4929
Binapacryl, control, *Podosphaera leucotricha,* apples 267, 268
Biological control
books 4114
conferences 4114
diseases
Agrobacterium tumefaciens
Carya pecan 3270
cherries 3576
Alternaria alternata, barley 4668
Botrytis cinerea, grapevines 327, 4732
Ceratocystis ulmi, elms 4014, 4457, 4996
Chaetomium olivaceum, mushrooms 2238
Chondrostereum purpureum
pears 974, 4713
pome fruits 3097
stone fruits 3097
Claviceps purpurea, grasses 3890
Colletotrichum capsici, Capsicum 3729
Cryphonectria parasitica, chestnuts 400, 4455
Erysiphe cichoracearum, cucumbers 447, 1265
Erysiphe polygoni, peas 4513
faba beans, damping off 2715
fungi, wheat 2414
Fusarium
cucumbers 1265
soilless culture 1863
Fusarium oxysporum f.sp. *dianthi,* carnations 2006, 4321
Fusarium oxysporum f.sp. *lycopersici,* tomatoes 386
Gaeumannomyces graminis, wheat 3829
Heterobasidion annosum 1217, 1218
Khuskia oryzae, maize 3155
Melampsora larici-populina, poplars 1660, 4017
Moniliophthora roreri, cocoa 2947
Phoma exigua var. *linicola,* flax 4913
Phomopsis sclerotioides, cucumbers 2197
Phytophthora 8
Phytophthora cactorum, apples 2546, 3907
Phytophthora palmivora, cocoa 113
plant pathogens 4617
Plasmodiophora brassicae, Brassica 5013
potatoes 3743
Pseudomonas solanacearum
groundnuts 3755
tobacco 3755
tomatoes 3755
Pythium 1864
peas 4516
Pythium ultimum
cotton 3056
peas 3418
reviews 2265, 3743
Rhizoctonia 1864
Rhizoctonia solani
beans (*Phaseolus*) 463
cotton 677, 4315
Iris 4920
potatoes 4756
soil 4619
Biological control *contd.*
diseases *contd.*
Rhizoctonia solani contd.
soyabeans 2209
Sclerotium cepivorum, onions 3385, 3724, 5056
Sclerotium rolfsii
beans (*Phaseolus*) 3418
Iris 4920
soil 4619
soil fungi 64
Sphaerotheca fuliginea, cucumbers 447, 2196
Synchytrium endobioticum, potatoes 4976
tomatoes, damping off 1211
Uredinales, pines 4479
Uromyces appendiculatus, beans (*Phaseolus*) 464
Uromyces dianthi, carnations 2007
Verticillium albo-atrum, hops 3607
Verticillium dahliae 880
eggplants 1756
plant diseases, reviews 111
weeds
Chrysanthemoides monilifera subsp. *monilifera, Aecidium osteospermi* 840
Cyperus esculentus, Puccinia canaliculata 2755
Eichhornia crassipes
Aquathanatephorus pendulus 528
fungi 4579
Myrothecium roridum 2253
Emex australis, Uromyces rumicis 839
Hakea sericea, Glomerella cingulata 5065
Lantana, fungi 4578
legislation 1362
Parthenium hysterophorus
fungi 1325
mycoplasmas 1325
raspberries, *Erwinia amylovora* 3135
Rosa multiflora, witches' broom 3544
Securigera securidaca, Erysiphe trifolii 2252
Bipolaris
grasses 239
Sporobolus 239
taxonomy 4627
Bitertanol
activity 542
fruit trees 3099
control
avocados, storage decay 3589
Erysiphe cichoracearum, cucumbers 787
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium juniperi-virginianae, apples 2369
Monilinia laxa, cherries 712
mushrooms, diseases 2236
Mycosphaerella, groundnuts 4070
Oidium begoniae, Begonia 223
Penicillium expansum, apples 271
Puccinia arachidis, groundnuts 4070
roses, diseases 686
Uromyces dianthi, carnations 2007
Venturia inaequalis, apples 702, 705, 3108, 3557
Venturia pirina, pears 702
seed treatments, wheat 624
Bjerkandera adusta, classification 1395
Black currants
Sphaerotheca mors-uvae
genetics 4373
resistance 3134
varietal reactions 4373
Black-eye cowpea mosaic virus, beans (*Phaseolus*) 1700
Blackberries
mycoplasmas, Italy 4723
Septocyta ruborum, Hungary 2049
viruses
Italy 4723
UK 1114
Blackgram mottle virus
soyabeans 1692
Vigna mungo 1692
Vigna radiata 1692
Blitox, control, *Xanthomonas campestris* pv. *malvacearum,* cotton 1523

Blitox-50
control
Monographella albescens, rice 2478
Phytophthora infestans, potatoes 3949
Blueberry (see *Vaccinium*)
Blumeriella jaapii, cherries 3574, 3575, 4720, 4721
Boerhaavia diffusa, viruses, inhibitor 4634
Boletus
antifungal agents, plant pathogens 881
pines, mycorrhizas 4142
Books
bacteria
nomenclature 856
plant pathogens 2777, 2778
biological control, crops, diseases 4114
boron, deficiencies 4850
cereals
storage decay 2376
Ustilaginales 981
crops, diseases, protection 3469
fungi
biology 4113
ecosystems 534
fruits, crops 537
Hydnaceae, Steccherinaceae 70
metabolites 3413
seeds, crops 537
techniques 2773
Turkmen SSR 2877
Fusarium 2325
host parasite relationships 2775
hyphomycetes 2872
lawn grasses, diseases 2523
maize, diseases 166
microbiology, agriculture 2265
microorganisms, environment 2762
mycoplasmas, techniques 2926
mycorrhizas 39
symbiosis 4136
pesticides
microorganisms 2774
toxicity 541
pests, integrated control 535
Phytophthora 3414
plant diseases 14
annual reviews 536
diagnosis 1775
management 2264
physiology 2258
plant pathogens 855
Mastigomycotina 4620
resistance 853
plant pathology 13, 855, 2263
reviews 2776
plant protection, decision making 2759
plant tumours, molecular biology 854
rice, *Pyricularia oryzae,* genetics 3027
soil, microbiology, crop production 4615
sugarcane, diseases 4983
trees
diseases 1651
Victoria 760
Uredinales, Mexico 1391, 1392
vegetables, diseases 2670
virology 90
plants 2347
viruses, flowering plants 591
Borax
control
mineral deficiences
apples 3553
pears 3553
Bordeaux
control
coconuts
Thanjavur wilt 3194, 3195
Cycloconium oleaginum, olives 1133
Cytospora, pines 1674
persimmons, fungi 1131
Phaeodactylium venkatesanum, Elettaria cardamomum 3931
Phytophthora infestans, potatoes 3949
Phytophthora nicotianae var. *parasitica, Piper betle* 2066, 4962
Polystigma rubrum, plums 3125
Pseudomonas syringae pv. *syringae,* apricots 2554
Rhabdocline pseudotsugae, Pseudotsuga menziesii 776
Xanthomonas campestris pv. *citri,* lime (citrus) 673
Bordeaux *contd.*
laboratory tests, *Capnodium citri* 669
Boric acid
control
Plasmodiophora brassicae
cabbages 1253
swedes 1686
Boron
control, tobacco, diseases 1205
deficiencies
apples 3553
books 4850
clover 3898
Lotus corniculatus 4712
lucerne 3898, 3901
pears 3553
nutrition
clover 3891
grasses 3891
toxicity
grasses 3891
lemons 3813
vegetables 3813
Botryodiplodia, rubber 739
Botryodiplodia hypodermia, elms 2161
Botryodiplodia theobromae
antagonism, *Phytophthora palmivora* 113
avocados 1127, 3586
Cycas circinalis 3065
grapefruits 2494
laboratory tests, fungicides 3758
Lagenaria siceraria 4797
mangoes 1584, 1585
oranges 205, 4305
pines 2646
rubber 2127
squash 4797
teak 105
yams 3402, 3731
Ziziphus jujuba 3153
Botryosphaeria corticis, *Vaccinium corymbosum* 4940
Botryosphaeria dothidea
apples 1557, 3105, 3564, 4935
nectarines 3569
peaches 1557, 1574, 3569, 3573
pines 3668
Botryosphaeria obtusa
apples 3908
fruit trees 1092
peaches 1574, 3573
Prunus laurocerasus 4319
Botryosphaeria rhodina, peaches 1574, 3573
Botryosphaeria ribis, *Eucalyptus camaldulensis* 2163
Botrytis
lupins 2537
onions 5056
peaches 3126
tobacco 4425
Vaccinium corymbosum 3577, 4372
Botrytis allii
activity, dichlofluanid 2894
enzymes 4822
onions 514, 827, 1316, 2748, 4083, 4822, 5057
soil 514
Botrytis cinerea
Actinidia chinensis 3596, 3920
activity
dichlofluanid 2894
fungicides 3421
apples 2539, 3905
appressoria 1821
beans (*Phaseolus*) 1702, 4527
Capsicum 900, 1750
Cicer arietinum 2737, 3714, 3715
conidia 4199
cucumbers 2199, 2946
eggplants 2946
enzyme activity 3240
Euphorbia pulcherrima 219
faba beans 472, 1269, 1283, 1858, 2714
fungicide tolerance 870, 873, 3424, 3759
Botrytis cinerea *contd.*
grapevines 291, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 336, 725, 871, 1140, 2062, 2568, 2573, 2574, 3161, 3162, 3163, 3164, 4731, 4732, 4733, 4958, 4959
inosine 1821
laboratory tests
cymoxanil 3422
flavonoids 35
phytoalexins 35
larch 1219
lettuce 506
lupins 1090
mulberries 2539
pears 273, 3551
physiology 4179
pigeon peas 1306
potatoes 366
raspberries 1119, 1579, 2047, 2539
roses 1076
safflower 3172
sclerotia 1835
strawberries 281, 1122, 2557, 3136, 3137, 3139, 3582
sunflowers 2069, 2582, 4742
tobacco 2629, 4763
tomatoes 1646, 1647, 1865, 2151, 2946, 3240, 3654
Trichoderma, antagonism 1389
wheat 3496
Botrytis fabae, faba beans 473, 1283, 1326, 2718, 3700, 4059, 4534, 4808
Botrytis tulipae
Narcissus 1078
tulips 1078
Botswana, sorghum, *Peronosclerospora sorghi* 182
Bouganvillea spectabilis, Stenella bougainvilleae, Malaysia 918
Bouteloua, mycorrhizas, Wyoming 2294
Boysenberry
fungicide residues 874
Peronospora sparsa, control 4377
Brachiaria decumbens, inhibition, *Sclerotinia sclerotiorum,* soil 69
Brachicaudus cardui, transmission, artichoke latent virus 1319
Brachycaudus helichrysi
transmission
plum pox virus 4719
potato virus Y 2092, 2097
Brassaia actinophylla
Alternaria
Florida 2019
irrigation 218
Alternaria panax
benomyl 4918
Florida 3074
Brassica
Alternaria
seed testing 5012
UK 2685
cauliflower mosaic virus, infection 4203
diseases, UK 1682
Leptosphaeria maculans
cultures 5015
infection 5015
seed testing 5012
UK 2685, 5015
virulence 5015
Plasmodiophora brassicae
control 5013
inoculation 442
varietal reactions 4786
Pythium aphanidermatum, Singapore 1256
seedling emergence, fungicides 5014
Brassica campestris, *Penicillium verrucosum* var. *cyclopium,* seeds, enzyme activity 5009
Brassica chinensis (see Chinese cabbages)
Brassica juncea (see Indian mustard)
Brassica napobrassica (see Swedes)
Brassica napus
mycorrhizas, infection 2302
Rhizoctonia solani, infection 2302
Brassica oleracea* var. *botrytis (see Cauliflowers)

Brassica oleracea var. capitata (see Cabbages)
Brassica oleracea var. gongyloides (see Kohlrabi)
Brassica oleracea var. viridis (see Kale)
Brassica rapa (see Turnips)
Brassica tournefortii, *Spiroplasma citri,* Arizona 102
Brassicol
activity
Cicer arietinum 4552
Macrophomina phaseolina 4891
control
Crotalaria juncea, diseases 4917
Macrophomina phaseolina, sunflowers 3183
Sclerotium rolfsii, groundnuts 495
laboratory tests, *Curvularia eragrostidis* 3917
seed treatments
beans (*Phaseolus*) 1703
cotton 1521
Bravo
control
Phaeocryptopus gaeumannii, Pseudotsuga menziesii 5006
Puccinia melanocephala, sugarcane 3971
Bravo 6F, control, *Phyllosticta musarum,* bananas 4379
Brazil
Amaranthus, Pythium 4224
beans (*Phaseolus*)
bean southern mosaic virus 457
Colletotrichum lindemuthianum 1278, 1279
cowpea severe mosaic virus 461
Uromyces appendiculatus 1277
Berberis spinulosa, Cumminsiella santa 2882
cabbages, *Alternaria brassicicola* 5017
carrots, *Gliocladium aureum* 443
citrus, *Xanthomonas campestris* pv. *citri* 1976
cocoa, *Phytophthora* 112, 2374
coffee, *Hemileia vastatrix* 1049, 2497, 3053, 3879
cowpeas
Cercospora 2221
Entyloma vignae 2221
crops, diseases 8
grapevines, diseases 3159, 3922
groundnuts, diseases 1721
Lantana, fungi 4578
lettuce, *Sclerotinia sclerotiorum* 508
Mimosa claussenii, mycorrhizas 3435
mulberries, *Phyllactinia moricola* 282
oil palms, marchitez sorpresiva 1154
onions, *Alternaria porri* 4564
Paullinia cupana, Calonectria rigidiuscula 343
peas, *Cylindrocladium clavatum* 455
Phaseolus, viruses 460
pineapples, *Gibberella fujikuroi* var. *subglutinans* 3149, 3150
rice
Fusarium oxysporum 3029
Pyricularia oryzae 1034, 1035, 1937
seed pathology, bibliographies 4221
Solanum palinacanthum, mycorrhizas 3773
soyabeans, diseases 476, 3343
sugarcane, *Ustilago scitaminea* 1626
sweet potatoes, *Fusarium oxysporum* 525
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 3991
wheat, root rots 1445
Bremia lactucae
cytology 507
lettuce 1, 1865, 2230, 2232, 2233, 2234, 3381, 3382, 3721, 3814, 4079, 4080, 4555, 4556, 4557, 5048, 5049
Bremiella artemisiae-annuae, *Artemisia annua* 2934
Bremiella chrysanthemi-coronariae, *Chrysanthemum coronarium* 2934
Bremiella multiformis, *Chrysanthemum coronarium* 2934
Brestan
activity, tomatoes 2635
control, *Capsicum,* diseases 3394
Brestan *contd.*
fungicide tolerance, *Fusarium oxysporum* f.sp. *lycopersici* 1350
Brestan 60
control, *Elsinoë batatas,* sweet potatoes 837
laboratory tests, *Cladosporium allii-cepae* 1317
Brestanol, control, *Phytophthora infestans,* potatoes 3949
Brevibacterium, classification 3752
British Columbia, spruce, *Therrya piceae* 2666
Briza maxima
barley yellow dwarf virus, indicator plants 2353
wheat rosette stunt virus, susceptibility 122
Briza minor, barley yellow dwarf virus, indicator plants 2353
Broad bean mottle virus, faba beans 4532, 4808
Broad bean stain virus, faba beans 471, 4808
Broad bean true mosaic virus, faba beans 4808
Broad bean vascular wilt virus, *Capsicum* 4567
Broad bean wilt virus
Ajuga reptans 3060
cowpeas 2731
hosts 2916
Broad beans (see Faba beans)
Broccoli
malformations
Italy 4034
mycoplasmas 4034
Brome mosaic virus
barley 1550, 2980
Bromus inermis 977
cereals 2380
grasses 2528
host parasite relationships 601
hosts 977
interactions 601
purification 1550
sorghum 1492
spread 601
wheat 3476
Brome streak mosaic virus
Bromus mollis 4335
Hordeum murinum 4335
Poaceae 4335
Bromophos, control, *Sclerotium cepivorum,* onions 3726
Bromotex O.S.D., control, *Sclerotium cepivorum,* onions 3726
Bromus inermis
brome mosaic virus
hosts 977
transmission 977
Turkey 977
Drechslera gigantea, hosts 249
Pyrenophora bromi
breeding 3893
genetics 3893
Bromus mollis
brome streak mosaic virus
characteristics 4335
hosts 4335
Brosimum uleanum, wood destroying fungi, resistance 4029
Brunei
plant diseases 1393
watermelons, *Colletotrichum lagenarium* 3319
Brussels sprouts
diseases, UK 1419
Fusarium oxysporum f.sp. *conglutinans*
environmental factors 1685
transmission 1685
varietal reactions 1685
Plasmodiophora brassicae, control 3681
Bryophyllum calycinum, *Agrobacterium tumefaciens,* enzyme activity 1784
Buckwheat, bacterial diseases, USSR 4645
Buildings, *Serpula lacrimans,* Australia 2178
Bulbs
viruses
control 1525
Netherlands 1525
testing 3532
Bulgaria
apples
dieback 3553
Podosphaera leucotricha 3561
beans (*Phaseolus*), *Fusarium* 4643
carnations, *Fusarium oxysporum* f.sp. *dianthi* 4698
cotton, *Thielaviopsis basicola* f.sp. *gossypii* 3881
grapevines
grapevine vein mosaic virus 4729
viruses 2567
maize, *Fusarium* 4643
pears, dieback 3553
plums, plum pox virus 711
potatoes, potato leaf roll virus 2597
tomatoes, *Fulvia fulva* 1648, 3241
wheat
Fusarium 4643
Pseudomonas syringae pv. *atrofaciens* 634
Puccinia recondita 622, 1886, 4660
Bupirimate
control
Podosphaera leucotricha, apples 268, 3560, 4359
Sphaerotheca fuliginea, cucumbers 4505
Burdock stunt viroid
Arctium lappa 4406
Arctium tomentosum 4406
Burning
activity, pines, *Leptographium gallaeciae* 4480
control
Glomerella cingulata, Stylosanthes capitata 697
Rhizoctonia solani, rice 3860
Burundi, potatoes, *Phytophthora infestans* 735
Butyric acid, control, wheat, storage decay 1435
Byelorussian SSR, wheat, *Puccinia recondita* 1885
CA, activity, *Paulownia* witches' broom 5000
Cabbages
Alternaria
sources 5011
UK 5011
water relations 5011
Alternaria brassicicola, Brazil 5017
black speck, control 4501
Erwinia carotovora ssp. *atroseptica,* control 4043
Erwinia carotovora ssp. *carotovora,* control 4043
fungi, soil treatments 877
Leptosphaeria maculans
toxins 1689
ultrastructure 1689
Plasmodiophora brassicae
control 439, 1253, 3680, 3681
phenoxyaetic acids 4042
USSR 4498
varietal reactions 4498, 4786
Rhizoctonia solani, pathogenicity 107
turnip mosaic virus, varietal reactions 2185
viruses, UK 5008
Xanthomonas campestris pv. *campestris,* isolation 4125
Cacao swollen shoot virus, cocoa 3474, 4867
Cactaceae
cactus virus X
aetiology 3533
characterization 3533
Cactus virus X
Cactaceae 3533
Hylocereus undatus 3533
Cadmium, toxicity, oats 2990
Caeoma deformans, Thujopsis dolabrata 2668
Caeoma salicis-miyabeana, Salix miyabeana 3275
Calanthe bicolor, cucumber mosaic virus, hosts 3888
Calanthe discolor
cucumber mosaic virus
hosts 3888
Japan 3888
symptoms 3888

Calanthe discolor *contd.*
cucumber mosaic virus *contd.*
transmission 3888
Calanthe sieboldii, cucumber mosaic virus, hosts 3888
Calathea, *Alternaria alternata,* USA 225
Calceolaria, *Phytophthora,* control 1062
Calcium
activity, oats 2990
control, *Phytophthora cinnamomi,* avocados 4948
Helicobasidium mompa, apples 2547
Calcium chloride
control
apples
bitter pit 3122
internal breakdown 3122
tomatoes, blossom-end rot 4774
Calcium cyanamide
control
Fusarium oxysporum, strawberries 2559
Plasmodiophora brassicae, Cruciferae 3681
Calcium hypochlorite, laboratory tests, bacteria, tea 4762
Calcium nitrate, control, guavas, storage decay 3144
Calcium peroxide, seed treatments, *Lolium perenne* 2388
Calcium propionate, control, *Cicer,* storage decay 5045
Calendula officinalis, rosette, India 3885
California
Abies, Fusarium oxysporum 2171
Actinidia chinensis, storage decay 3596
Arbutus menziesii, mycorrhizas 2309
Arctostaphylos pungens, mycorrhizas 2309
carnations, viruses 2005
cereals, barley yellow dwarf virus 2950
cherries
mycoplasmas 3129
Spiroplasma citri 3129
Cruciferae, *Plasmodiophora brassicae* 3311
elms, *Ceratocystis ulmi* 766, 3662
grapevines
Botrytis cinerea 4958
Phomopsis viticola 337
Uncinula necator 297
Juniperus, Phytophthora 427
pines
air pollution 1238
Ceratocystis wageneri 1667
Fusarium oxysporum 2171
Heterobasidion annosum 1246
Lophodermella arcuata 418
Phlebia gigantea 1246
Pleurotus ostreatus, Verticillium fungicola 509
potatoes, *Rhizoctonia solani* 365
safflower, turnip mosaic virus 2067
tomatoes
Pseudomonas corrugata 2155
Pyrenochaeta lycopersici 389
Zelkova serrata, Ceratocystis ulmi 3662
Calixin
control
barley, diseases 1001
Cercospora sesami, sesame 3178
Erysiphe graminis, barley 151
Erysiphe polygoni, peas 4053
Oidium, Tamarindus indica 1233
Puccinia arachidis, groundnuts 494
Rigidoporus lignosus, rubber 2126
laboratory tests
Capnodium citri 669
Setosphaeria rostrata 2153
phytotoxicity, sesame 727
Calliandra haematocephala, *Spiroplasma,* epiphytes 3064
Callistemon lanceolatus, fungicidal properties 1731
Callistephus, *Septoria* 2505
Callistephus chinensis
aster yellows
mycoplasmas 4919
transmission 4919
Spiroplasma citri, transmission 3190
Calluna vulgaris, mycorrhizas, inoculation 3440
Calocera viscosa, *Pseudotsuga menziesii* 413
Calomel, control, *Plasmodiophora brassicae,* cabbages 439
Calonectria crotalariae, lucerne 258
Calonectria floridana, *Eucalyptus* 768
Calonectria ilicicola, *Eucalyptus* 768
Calonectria quinqueseptata, *Eucalyptus* 768, 4463
Calonectria rigidiuscula, *Paullinia cupana* 343
Calonectria theae, biology 2889
Calyptella campanula
hosts 2641
tomatoes 2641
Calyram, foliar uptake 876
Camellia japonica, *Exobasidium giganteum,* galls (plant) 224
Camellia reticulata, *Glomerella cingulata,* varietal reactions 682
Camellia sinensis (see Tea)
Camphor
activity, fungi 4597
avocado sunblotch viroid, infection 3584
Camposan, control, *Erysiphe graminis,* rye 1008
Canada
apples, tobacco ringspot virus 3103
barley, *Puccinia graminis* 983
beans (*Phaseolus*), *Colletotrichum lindemuthianum* 3695
cereals, barley yellow dwarf virus 2379
Euphorbia pulcherrima, poinsettia mosaic virus 3539
forest trees, diseases 761, 4000
fungi 2879, 2885
Fusarium poae 74
Fusarium sporotrichioides var. *sporotrichioides* 74
grasses, barley yellow dwarf virus 2379
Helminthosporium solani 74
Leptosphaeria avenaria 74
Leptosphaeria nodorum 74
mycorrhizas 564
oats
Puccinia coronata 1006
Puccinia graminis 1007
Pleospora herbarum 74
Pseudoseptoria bromigena 74
Pseudoseptoria stomaticola 74
rape, *Sclerotinia sclerotiorum* 4788
roses
Pythium aphanidermatum 1075
Rhizoctonia solani 1075
rye, *Puccinia graminis* 983
soyabeans, *Pseudomonas syringae* pv. *syringae* 1293
Stemphylium sarciniforme 74
tobacco, *Peronospora tabacina* 3648
tomatoes, *Pseudomonas syringae* pv. *tomato* 3995
wheat
Puccinia graminis 983
Puccinia recondita 998
Canary Islands
mangoes, diseases 2052
Sclerotiniaceae 914
Candida krusei, enzymes 2858
Cannabis sativa, *Alternaria alternata,* India 1597
Cantaloupes
Alternaria cucumerina, control 3321
storage decay, control 5022
Capnocheirides rhododendri, *Rhododendron* 685
Capnodium citri, citrus 669
Capsella bursa-pastoris, beet western yellows virus, purification 4205
Capsicum
air spora, India 2750
Alternaria alternata
infection 2245
Israel 2245
Alternaria solani, interactions 4828
antiviral properties 2090, 4437
bean distortion dwarf virus, hosts 3691
boron, toxicity, irrigation 3813
Botrytis cinerea
enzymes 1750
host parasite relationships 900
Cercospora capsici, control 3394
Colletotrichum capsici
biological control 3729
Capsicum *contd.*
Colletotrichum capsici *contd.*
control 1751, 3394
infection 4569
interactions 519
phytoalexins 1858, 4569
varietal reactions 519
cucumber mosaic virus
epidemiology 4826
hosts 4826
Italy 4826
serological diagnosis 1250
transmission 4826, 4827
varietal reactions 4827
fungi
India 2750
soil treatments 877
Turkey 4568
Glomerella cingulata
enzymes 1750
host parasite relationships 900
infection 4569
iron 831
phytoalexins 830, 1858, 3728, 4569
Glomus fasciculatum
mycorrhizas
fertilizers 4156
growth 4156
mycorrhizas
environmental factors 1368, 4843
Israel 3771
pepper mild mosaic virus
particles 520
Venezuela 520
pepper mottle virus, genetics 829
Phytophthora, ultrastructure 1411
Phytophthora capsici
capsidiol 1321, 3393
epidemiology 2244
induced resistance 3393, 4570
resistance 1321
testing 4570, 4571
varietal reactions 4571
Phytophthora nicotianae var. *parasitica,* physiology 4609
potato virus Y, varietal reactions 4086
Pseudomonas cichorii
Cuba 1323
symptoms 1323
Pseudomonas solanacearum, indicator plants 3985
Rhizoctonia solani, pathogenicity 107
seedborne fungi, India 5060
sunscald 2672
tobacco mosaic virus
hosts 3391
identification 2910
interactions 519
Nigeria 3391
resistance 828, 1320
strains 2908, 3391
varietal reactions 3392
tomato bushy stunt virus, ultrastructure 4771
tomato bushy-top virus, infection 3979
Verticillium dahliae, toxins 2794
viruses
control 2243
differentiation 3390
Hungary 1749
Italy 4567
mixed infection 4567
pigments 1749
resistance 3674
strains 4567
susceptibility 599
transmission 2243, 4567
Xanthomonas campestris pv. *vesicatoria*
biochemistry 1753
control 1752, 5061
detection 2266
environmental factors 1322
fertilizers 4572
infection 2246
Israel 2246
metal tolerance 5061
survival 963, 4573
varietal reactions 832
Capsicum **mottle virus,** CMI/AAB descriptions 89
Capsidiol, *Capsicum* 1321, 3393

Captafol
activity
barley 3833
Pythium butleri 2735
control
Actinidia chinensis, storage decay 1132
Alternaria alternata, passion fruit 1589
Alternaria helianthi, sunflowers 3181
Alternaria solani
potatoes 1619
tomatoes 1210
avocados
postharvest decay 4946
sooty blotch 3588
storage decay 3589
Botrytis cinerea
grapevines 312, 323
roses 1076
Chondrostereum purpureum, stone fruits 3914
coffee, diseases 4311, 4314
Colletotrichum capsici, *Capsicum* 1751
Colletotrichum lagenarium, watermelons 3319
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278, 1279, 4522
Coriolus versicolor, apples 3117
Corticium sasakii, rice 2475
cowpeas, damping off 2735
Dothiorella aromatica, avocados 3588
Elsinoë ampelina, grapevines 2058, 4734
Elsinoë fawcettii, citrus 1971
Gibberella fujikuroi var. *subglutinans*, pineapples 3149
Glomerella cingulata
Anemone 1060
avocados 3588
coffee 1981, 3529
Vaccinium corymbosum 4372
Koleroga noxius, coffee 3877
microorganisms, wounds 4013
Monographella albescens, rice 2478
mushrooms, diseases 4558
Phoma exigua var. *foveata*, potatoes 3636
Phomopsis phyllanthi, *Phyllanthus emblica* 3152
Phytophthora, *Calceolaria* 1062
Phytophthora nicotianae var. *parasitica*, oranges 3045
Phytophthora palmivora, aranda 4701
Piper nigrum, black berry 1145
Pleurotus sajor-caju, weeds, fungi 4082
potatoes, seed tubers, decay 3945
Pseudocercospora aromatica, avocados 4947
Pseudocercospora purpurea, avocados 3587
Puccinia arachidis, groundnuts 3368
Puccinia striiformis, wheat 138
Pyrenochaeta lycopersici, tomatoes 3245
radishes, diseases 1254
rubber, diseases 1189
Septoria apiicola, celery 2690, 5019
Septoria chrysanthemella, *Chrysanthemum* 4324
Septoria lycopersici, tomatoes 1210
Vaccinium corymbosum, storage decay 4372
yams, diseases 3732
fungicide tolerance, plant pathogens 3424
laboratory tests
Alternaria porri 4084
Aspergillus alternata 4069
Nectria cinnabarina 2036
phytotoxicity, sesame 3609
seed treatments
cotton 212
groundnuts 4072
Lablab purpureus 2743
maize 1912
sesame 3609
tomatoes 3993
Vigna radiata 503
Captan
activity
apples 4355
rhizosphere fungi 817

Captan *contd.*
control
apples, storage decay 1565
apricots, diseases 1112
Botrytis cinerea, grapevines 3163
Capsicum, diseases 3394
clover, diseases 2532, 2533
Cochliobolus lunatus, sorghum 186
Colletotrichum fragariae, strawberries 3916
Colletotrichum trichellum, ivy 3071
Didymella applanata, raspberries 278
Dothiorella aromatica, avocados 4945
Elsinoë ampelina, grapevines 2058
Fusarium, potatoes 2613
Gibberella fujikuroi, sorghum 186
Glomerella cingulata
Anemone 1060
avocados 4945
cassava 5063
grapevines, diseases 2058
Monilinia, cherries 1578
Monilinia fructicola, peaches 3572
oranges, postharvest decay 205
Penicillium expansum, apples 271
Peronospora sparsa, roses 1073
Pezicula, apples 269
Phomopsis viticola, grapevines 337
Pleurotus sajor-caju, weeds, fungi 4082
Polystigma rubrum, plums 3125
Pseudocercospora purpurea, avocados 4945
Pyrenochaeta lycopersici, tomatoes 3245
Sclerotium rolfsii, turf 1541
strawberries, diseases 3136
Venturia inaequalis, apples 709, 3109
Xanthomonas campestris pv. *hyacinthi*, hyacinths 3057
yams, diseases 3732
foliar uptake 876
phytotoxicity, sesame 3609
residues, maize 1009
seed treatments
Cicer arietinum 2225
cucumbers 3326
faba beans 4531
groundnuts 1721
Lablab purpureus 2743
Lolium perenne 4924
maize 171, 1912
peas 4801
rice 193
sesame 3609
sorghum 1920
soyabeans 480, 2209
sunflowers 3184
soil treatments 3704
translocation, maize 1009
Caraway, diseases, German Democratic Republic 3187
Carbaryl, control, coconuts, hartrot 1610
Carbathiin, seed treatments, rye 2435
Carbendazim
activity
apples 3117
plants 2794
potatoes 3952, 4410
Rhizoctonia solani 2735
safflower 4739
wheat 1434
control
Alternaria carthami, safflower 4739
apricots, diseases 1112
Aspergillus flavus, apples 3910
avocados, storage decay 1127
Botrytis cinerea
lupins 1090
strawberries 3137
tomatoes 1646
Ceratocystis paradoxa, sugarcane 1196
Ceratocystis ulmi, elms 401
Cercospora beticola, beet 436
Colletotrichum capsici, *Capsicum* 1751
Coriolus versicolor, apples 3117
Corticium sasakii, rice 2475
cowpeas, damping off 2735
cucumbers, diseases 4046
Diaporthe citri, citrus 4691
Erysiphe graminis
barley 151
rye 1008

Carbendazim *contd.*
control *contd.*
Erysiphe polygoni, peas 4053
groundnuts, diseases 3284, 3367
Macrophomina phaseolina, sunflowers 1148
microorganisms, wounds 4013
Mycosphaerella, groundnuts 4070, 4071
Myrothecium roridum, tomatoes 390
Ophiostoma kubanicum, oak 405
oranges, storage decay 4909
Penicillium digitatum, oranges 1972
Pezicula malicorticis, apples 3551
Phoma exigua var. *foveata*, potatoes 2081, 2116, 3636
Phoma exigua var. *linicola*, flax 4913
Phomopsis phyllanthi, *Phyllanthus emblica* 3152
Phyllosticta, cloves 4395
Phytophthora syringae, apples 3563
Piper nigrum, black berry 1145
Pleiochaeta setosa, lupins 1090
Pleurotus sajor-caju, weeds, fungi 4082
Podosphaera leucotricha, apples 1104
Polyscytalum pustulans, potatoes 2615
potatoes
diseases 2102
seed tubers, decay 3945
Rhizoctonia solani, potatoes 4756
Septoria, wheat 2392
strawberries, diseases 3136
Tilletia indica, wheat 1891
wheat, root rots 989
Xanthomonas campestris pv. *phaseoli*, *Vigna radiata* 5047
fungicide tolerance
Botrytis cinerea 321, 974
plant pathogens 873
laboratory tests
Aspergillus alternata 4069
Aspergillus niger 4084
Corticium sasakii 3858
phytotoxicity, sesame 727
residues, apples 1097
seed treatments
barley 1905
beans (*Phaseolus*) 1703, 4804
cotton 908, 3878
cowpeas 908
groundnuts 4072
jute 2504
Lablab purpureus 2743
sorghum 1919
tomatoes 3993
Vigna radiata 503
wheat 36, 126, 2978
soil treatments 1894, 4554
translocation, elms 401
Carbendazim M, seed treatments, maize 1912
Carbofuran
activity, potatoes, diseases 1617
seed treatments, *Crotalaria juncea* 680
Carboxamides, activity, *Sclerotium rolfsii* 2861
Carboxin
activity
Cyamopsis tetragonoloba 5046
wheat 2407
control
clover, diseases 2532, 2533
coconuts, Thanjavur wilt 3195
Crotalaria juncea, diseases 4917
Fusarium, potatoes 2613
Helminthosporium allii, garlic 3387
Puccinia arachidis, groundnuts 4070
Puccinia penniseti, *Pennisetum americanum* 3852
Pythium 4846
Rhizoctonia solani, cotton 1991
Sclerotinia narcissicola, *Narcissus* 1067
Sclerotium rolfsii
Cicer arietinum 4078
groundnuts 495, 3370
turf 1541
Tilletia indica, wheat 1891
wheat, root rots 989
seed treatments
barley 1905
beans (*Phaseolus*) 1703, 4804
Cicer arietinum 4078

Carboxin *contd.*
seed treatments *contd.*
coffee 4309
cotton 212
faba beans 4531
groundnuts 1721, 3706
Lablab purpureus 2743
maize 3155
Pennisetum americanum 3852
wheat 125, 990, 2407
Caribbean
crops, post-harvest losses 4584
yams, viruses 4089
Carica papaya (see Papayas)
Carissa carandas, *Pestalotiopsis versicolor,* India 2056
Carissa spinarum, *Meliola carissae,* India 4626
Carnation etched ring virus, carnations 1995, 2005
Carnation latent virus
carnations 1995
Chenopodium murale 2358
relationships 1844
Carnation mottle virus
carnations 1528, 2004, 2005, 2506, 3535
detection 681
diagnosis 3535
Carnation necrotic fleck virus
carnations 2005
RNA 3455
Carnation ringspot virus
carnations 2005
detection 681
Carnation vein mottle virus, carnations 1995
Carnation yellow stripe virus, carnations 4697
Carnations
carnation mottle virus
detection 2004, 2506
diagnosis 3535
Latvian SSR 1528
yield losses 1528
carnation yellow stripe virus
characteristics 4697
Italy 4697
relationships 4697
fungi, Egypt 3062
Fusarium oxysporum f.sp. *dianthi*
biological control 2006
breeding 4323
Bulgaria 4698
Colombia 4322
control 4321, 4322
varietal reactions 4698
Peronospora
Italy 3883
morphology 3883
symptoms 3883
taxonomy 3883
Puccinia dianthi, induced resistance 3814
Rhizoctonia solani, control 1061
Uromyces dianthi
biological control 2007
control 2007, 2507
viruses
California 2005
UK 1995
Carpinus, *Melampsoridium,* classification 76
Carrot mottle virus, characterization 1257
Carrot red leaf virus
characterization 1257
CMI/AAB descriptions 89
Carrots
Alternaria dauci, control 2689
antifungal agents 3316
cavity spot
aetiology 1258
control 1258
soil pH 4044
UK 4044
Chaetomium globosum, phytoalexins 2194
Clostridium, biology 858
diseases, UK 1419
Erysiphe heraclei
breeding 3315
inoculation 3315
Gliocladium aureum
Brazil 443
root rots 443
Carrots *contd.*
phytoalexins 3316
seed treatments, germination 3760
tomato black ring virus, UK 1257
Carthamus tinctorius (see Safflower)
Carum ajowan, fungicidal properties 3428
Carum copticum, seedborne fungi, Andhra Pradesh 4736
Carya pecan (see Pecans)
Caryocar coccineum, wood destroying fungi, resistance 4029
Caryophyllaceae, *Ustilago violacea,* transmission 972
Caseobacter, classification 3752
Cassava
African mosaic, cytology 835
cassava (African) mosaic virus, leaf analysis 834
cassava mosaic virus
crop loss 522
Kenya 522
Colletotrichum manihotis, Nigeria 3397
diseases
Colombia 4576
Kenya 3734
Latin America 4490
resistance 1764
spread 4576
symptoms 4576
Elsinoë, South America 3398
Elsinoë brasiliensis
resistance 4577
yield losses 4577
Glomerella cingulata
control 5063
pathology 5063
mosaic
control 836
Kenya 836, 1759
viruses 1759
mycorrhizas
inoculation 4155
interactions 4155
nutrition 3772
Sphaceloma, South America 3398
storage decay 1324
Xanthomonas campestris pv. *cassavae*
East Africa 1761
environmental factors 1760
Xanthomonas campestris pv. *manihotis*
East Africa 1761
interactions 4577
Nigeria 3397
Cassava (African) mosaic virus, cassava 834
Cassava latent virus
DNA 2357
identification 969
structure 4203
Cassava mosaic virus, cassava 522
Cassia obtusifolia, *Alternaria alternata,* India 1413
Cassia occidentalis, cucumber mosaic virus, hosts 3888
Castanea (see Chestnuts)
Castor (see *Ricinus communis*)
Catalpa bignonioides
Verticillium albo-atrum
control 1664
Italy 1664
symptoms 1664
Catalpa bungei
Verticillium albo-atrum
control 1664
Italy 1664
symptoms 1664
Catharanthus roseus
Agrobacterium tumefaciens
cytokinins 4117
enzymes 3746
protoplasts 3750
little leaf
India 2008
mycoplasmas 2008
mycoplasmas
detection 2509
rooting 2508
Spiroplasma citri, detection 2520
wilt, bacteria, vectors 3417
witches broom, infection 1856
yellows, stomatal resistance 3468
Cations, activity, *Erysiphe graminis,* barley 4266
Cattleya, *Cymbidium* mosaic virus, Italy 4700
Cauliflower mosaic virus
Brassica 4203, 5008
coat protein 608
DNA 784, 1850
genes 608
genetic engineering, books 854
molecular biology, books 854
protoplasts 784
research 4203
Cauliflowers
damping off, control 4041
malformations
Italy 4034
mycoplasmas 4034
Peronospora parasitica, infection 2682
Pyrenopeziza brassicae, spore dispersal 2191
viruses, UK 5008
Xanthomonas campestris
growth regulators 4499
host parasite relationships 4499
Cedar (see *Cedrus*)
Cedrus, seed pathology 2669
Celeriac (see Celery)
Celery
celery mosaic virus
UK 5018
varietal reactions 5018
Corynebacterium fascians, strains 1788
Fusarium oxysporum f.sp. *apii*
bacteria 4790
soil pH 4790
Septoria apiicola
control 2690, 5019
Italy 2690
western X disease
transmission 1107
vectors 1107
Celery mosaic virus, celery 5018
Cellulomonas, classification 3752
Celosia, *Rhizoctonia solani,* pathogenicity 107
Celosia argentea, tomato bushy stunt virus, transmission 2914
Cenangium ferruginosum, pines 422, 4485
Cenchrus ciliaris, *Claviceps fusiformis,* Rajasthan 4892
Cenococcum geophilum
growth 3766
pines, mycorrhizas 2817
Tilia cordata, mycorrhizas 886, 887
Tsuga heterophylla, mycorrhizas 1364
Cenococcum graniforme
enzymes 1811, 2818
pines, mycorrhizas 45
Salix rotundifolia, mycorrhizas 1811
Central Africa, cotton, blue disease 210
Central America
Acaulospora foveata 51
Acaulospora tuberculata 51
beans (*Phaseolus*), *Rhizoctonia solani* 1276
Centratherum anthelminticum, tomato leaf curl virus, infection 3988
Centrosema, diseases, Colombia 2521
Centrospora acerina, caraway 3187
Cephaleuros virescens
hosts 2873
Piper nigrum 1145
Taiwan 2873
tea 377
Cephalosporium, fruit trees 1091
Ceratobasidium, taxonomy 3787
Ceratobasidium cornigerum
beet 4495
clover 4929
pines 1240
Ceratocystis fagacearum, oak 2646, 3267
Ceratocystis fimbriata
coffee 3876
Colocasia esculenta 2752
Platanus 1659, 4011
Ceratocystis fimbriata* f.sp. *platani, *Platanus* 406
Ceratocystis paradoxa
citron 3866
citrus 1517
melons 790
sugarcane 1196, 2131, 3218, 3405, 3967
Ceratocystis penicillata, spruce 4780
Ceratocystis polonica, spruce 4780

Ceratocystis ulmi
elms 401, 402, 403, 404, 761, 766, 767, 1222, 1224, 2646, 2652, 3261, 3262, 3263, 3264, 3661, 3662, 4011, 4014, 4456, 4457, 4458, 4459, 4460, 4461, 4776, 4777, 4996
morphology 4460, 4461
Pseudomonas syringae, antagonism 4457
Zelkova serrata 3662
Ceratocystis wageneri, pines 1667
Ceratoma trifurcata, transmission, bean pod mottle virus 4061
Ceratosphaeria grisea
Lolium multiflorum 245
Lolium perenne 245
Stenotaphrum secundatum 4925
Ceratotect, control, *Ceratocystis ulmi,* elms 3264
Ceratoulmin, activity 403
Cercis canadensis, *Cercospora cercidicola,* New Zealand 2932
Cercis chinensis, *Verticillium,* disease transmission 1091
Cercoseptoria cordiicola, nomenclature 918
Cercoseptoria pini-densiflorae, pines 1247
Cercospora
air spora 4817
cowpeas 2221
morphology 77
sesame 3175
Ukrainian SSR 77
West Bengal 915, 916, 917
Cercospora batatae, sweet potatoes 1762
Cercospora beticola
beet 436, 2182, 2371, 3307
CMI descriptions 84
induced mutations 2182
Cercospora brassicicola, CMI descriptions 84
Cercospora canescens
Lablab purpureus 105
Vigna radiata 1304
Cercospora capsici
Capsicum 3394
CMI descriptions 84
Cercospora cercidicola, *Cercis canadensis* 2932
Cercospora citrullina, *Lagenaria vulgaris* 105
Cercospora contraria, yams 3732
Cercospora crataegi
Crataegus monogyna 584
Crataegus oxyacantha 584
Cercospora daphniphylli, *Daphniphyllum macropodum* 584
Cercospora effusa, pecans 1225, 2166, 4779
Cercospora flagellaris, *Phytolacca americana* 584
Cercospora helichrysi, *Helichrysum bracteatum* 1532
Cercospora kikuchii, soyabeans 474, 491, 1289, 1290, 1717, 2721, 3346
Cercospora microsora, lime (*Tilia*) 2646
Cercospora ogawae, *Mahonia fortunei* 584
Cercospora oryzae
Panicum maximum 2479
Pennisetum purpureum 2479
rice 2479
Cercospora sesami, sesame 3178
Cercospora sorghi, *Cymbopogon martini* var. *motia* 341
Cercospora weigeliae, *Weigelia* 584
Cercospora wrightia, *Wrightia tinctoria* 2169
Cercospora zeae-maydis
maize 1916, 1918, 2999
storage 2999
Cercospora zebrina, lucerne 4348
Cercosporidium
China 2884
nomenclature 2884
Cercosporidium flemingiae
China 2884
taxonomy 2884
Cercosporin, activity, tobacco 3228
Cereal chlorotic mottle virus, CMI/AAB descriptions 89
Cereals
Ascochyta
environmental factors 3820
German Federal Republic 3820
susceptibility 3820
Cereals *contd.*
barley yellow dwarf virus
aphids 4868
California 2950
Canada 2379
control 4652
detection 114, 1426
epidemiology 689, 2379
forecasting 1425
Indiana 689
Kentucky 114
strains 2379, 2950
transmission 1424, 1425, 2950
UK 4868
Cochliobolus sativus, interactions 2367
damping off
physiology 2949
USSR 2949
diseases
Belgium 4101
control 974, 1871, 1876, 2387, 3816, 4096
identification 986
Ireland 3478
Italy 4218
Kenya 3734
New Zealand 1871, 3816
protection 3469
seedborne organisms 4218
soil cultivation 3817
UK 1423, 4093, 4650
varietal reactions 1876, 4097
yield losses 1871, 3816
Erysiphe graminis
control 878, 2285
forecasting 953
spore dispersal 3819
spread 1877
USSR 953
fungi
disease models 1870
mixed cropping 1870
Fusarium nivale, taxonomy 4646
Gaeumannomyces graminis
genetics 4233
pathogenicity 4233
varietal reactions 4233
mycorrhizas
environmental factors 2300, 2825
weeds 2300
Puccinia
control 878
models 2956
Puccinia graminis
ecology 4235
specialization 4227
Puccinia striiformis
New South Wales 845
spread 1877
Pyrenophora teres, resistance 973
Rhizoctonia, control 4096
Rhizoctonia cerealis
relationships 4234
resistance 4234
rice gall dwarf virus, hosts 1935
root rots, sources 3812
seed treatments 2791
storage decay, books 2376
Uredinales
epidemiology 978
models 978, 2953
races 1429
spread 2953
Ustilaginales
books 981
resistance 2383
USSR 2383
viruses
German Democratic Republic 3476
Jordan 2380
Lebanon 2380
Syria 2380
Xanthomonas campestris pv. *cerealis,* infection 646
Ceresan
control
Cicer, storage decay 5045
radishes, diseases 1688
seed treatments, barley 2431
Ceresan dry, seed treatments, cotton 1521
Ceresan wet
control, *Sclerotium rolfsii,* groundnuts 495
Ceresan wet *contd.*
laboratory tests, *Curvularia eragrostidis* 3917
seed treatments, sorghum 1920
Cerotoma arcuata, transmission, cowpea severe mosaic virus 500
Ceuthospora lunata, cranberries 2044, 2045
CGA 64251
control
avocados, storage decay 1127
Ceratocystis paradoxa, sugarcane 3967
Erysiphales, greenhouse crops 3473
Geotrichum candidum, lemons 207
mangoes, postharvest decay 1584
Oidium begoniae, Begonia 223
Penicillium expansum, apples 271
Ustilago scitaminea, sugarcane 3641
soil treatments 223
CGA 78039, cuprokylt, control, *Erwinia,* potatoes 1186
Chad, cotton, *Xanthomonas campestris* pv. *malvacearum* 1993
Chaetomella, *Eichhornia crassipes* 2253
Chaetomium, antagonism, *Rhizoctonia solani* 1986
Chaetomium globosum
antagonism
Helminthosporium apattarnae 2958
Venturia inaequalis 3110, 4358
carrots 2194
Chaetomium olivaceum, mushrooms 2238
Chaetosiphon jacobi, transmission, strawberry crinkle virus 1580
Chalara graminicola, *Chionochloa* 2326
Chamaecyparis lawsoniana, *Stigmina thujina,* Hawaii 425
Chamaedorea seifrizii, fluoride, damage 2075
Cheiranthus cheiri
Alternaria brassicae, India 1530
Alternaria cheiranthi, India 1530
Chenopodium, tulip breaking virus, infection 2011
Chenopodium album
squash mosaic virus, Morocco 1690
Verticillium albo-atrum, susceptibility 968
Chenopodium amaranticolor
chicory virus X, indicator plants 1745
cucumber mosaic virus
hosts 3888
inhibitors 4858
dandelion latent virus, indicator plants 943
lucerne transient streak virus
particles 4349
RNA 4349
potato virus S, symptoms 3622
potato virus U, infection 3208
potato virus X, inhibition 1167
strawberry latent ringspot virus, particles 939
tobacco mosaic virus
infection 2633
inhibitors 4858
tobacco necrosis virus
antiviral properties 4207
infection 4856
tobacco necrosis virus *Chenopodium* necrosis str., infection 1851
turnip mosaic virus, inhibitors 4858
Chenopodium murale
carnation latent virus, indicator plants 2358
hop latent virus, indicator plants 2064
Chenopodium quinoa
American hop latent virus, indicator plants 2064
bean mosaico-em-desenho virus, infection 460
cowpea severe mosaic virus, infection 461
dandelion latent virus, indicator plants 943
grapevine fanleaf virus, infection 292
Indian peanut clump virus, hosts 3361
Pelargonium line pattern virus, cytoplasmic inclusions 1533
Populus virus, indicator plants 1226
potato virus S, symptoms 3622
potato virus U, infection 3208
squash mosaic virus, infection 1690
tobacco necrosis virus, infection 4856

Chenopodium quinoa *contd.*
tobacco necrosis virus *Chenopodium* necrosis str., infection 1851
tobacco streak virus
hosts 1402
indicator plants 2101
tomato black ring virus, induced resistance 4633
tomato bushy stunt virus
indicator plants 1848
infection 4856
transmission 2914
viruses, detection 1845
Chenopodium rubrum, potato virus S, symptoms 3622
Cherries
Agrobacterium tumefaciens
biological control 3576
control 3576
bacteria, freezing 1783
Blumeriella jaapii
breeding 4720, 4721
control 3574
epidemiology 3574
testing 3575
Ukrainian SSR 3574
varietal reactions 4721
Chondrostereum purpureum
control 3914
sugars 713
diseases, Netherlands 2541
Monilinia, control 1578
Monilinia laxa, control 712
Petunia asteroid mosaic virus
German Federal Republic 3128
symptoms 3128
Phytophthora, South Australia 1558
prune dwarf virus, infection 3913
Prunus necrotic ringspot virus
detection 2039
infection 3913
pollen 2039
Pseudomonas syringae, detection 4371
Pseudomonas syringae pv. *morsprunorum*
epidemiology 3570
virulence 3570
Spiroplasma citri, California 3129
storage decay, control 3130
Valsa leucostoma, epidemiology 4937
viruses
elimination 4370
Italy 4369
spread 4369
X-disease
California 3129
mycoplasmas 3129
Cherry leaf roll virus
rhubarb 517
walnuts 1228, 1661
Cherry rasp leaf virus, raspberries 1114
Chestnuts
Cryphonectria parasitica
biological control 400, 4455
control 3660
environmental factors 3259
genetics 399
Greece 3259
hypovirulence 3260
Italy 1656, 3260, 3660
particles 2651
physiology 765
reviews 13
ultrastructure 2651
varietal reactions 1656
vectors 4995
virulence 398, 2651
viruses 398
diseases
reviews 3659
USA 3659
Hebeloma cylindrosporum, mycorrhizas, mineral nutrition 3432
Lyophyllum aggregatum, mycorrhizas, mineral nutrition 3432
Chevron, control, *Glomerella cingulata,* coffee 3529
Chevron 20615, control, *Phytophthora cinnamomi,* avocados 4949, 4950
Chick pea (see *Cicer arietinum*)
Chicory
chicory virus X
characteristics 1745
Italy 1745
Chicory *contd.*
chicory virus X *contd.*
transmission 1745
Chicory virus X, chicory 1745
Chile
apples, *Venturia inaequalis* 266, 3111
avocados, *Verticillium dahliae* 3594
Gevuina avellana, Pestalotia truncata 3279
potatoes
potato virus X 3941
viruses 3940
tobacco, potato virus Y 379, 3226
wheat
Puccinia graminis 2965
Puccinia striiformis 2968
Chilli (see *Capsicum*)
China
apples, viruses 3904
Arctium lappa, burdock stunt viroid 4406
Arctium tomentosum, burdock stunt viroid 4406
Artemisia annua, Bremiella 2934
barley
Fusarium 2385
Gibberella saubinetii 4871
beans (*Phaseolus*), bean distortion dwarf virus 3691
Cercosporidium 2884
Chinese cabbages, viruses 4035
Chrysanthemum coronarium, Bremiella 2934
fruit trees, *Armillaria tabescens* 2542
Fusarium crookwellense, hosts 1831
Lagerstroemia, Uncinuliella australiana 1394
lucerne, alfalfa mosaic virus 2025
melons
viruses 2691
watermelon mosaic virus 4045
mushrooms, diseases 2744
olives, *Cycloconium oleaginum* 3154, 3921
peaches, warty bark spot 4939
Phaeoramularia 2327
pines, *Cytospora* 1674
plant diseases 2259
yellows 1409
Polyporaceae 1832, 3252
potatoes, *Corynebacterium michiganense* pv. *sepedonicum* 4758, 4978
Rhododendron
Monochaetia monochaeta 3076
Phyllosticta aurea 3076
rice
bacteria 3862
Pyricularia oryzae 1504
rice bunchy stunt virus 2459
rice dwarf virus 4895
rice ragged stunt virus 3516, 4685
rice yellow stunt virus 1500
Xanthomonas campestris pv. *oryzae* 2482
sorghum, *Sphacelotheca reiliana* 185
sugarcane, diseases 3970
sweet potatoes
Fusarium 2754
Fusarium solani f.sp. *batatas* 2753
Symphytum, Pseudomonas solanacearum 2538
tea
diseases 378
Guignardia camelliae 378
Uncinuliella 1394, 1662
Verticillium nigrescens 2361
watermelons, watermelon mosaic virus 444
wheat
diseases 2259
Fusarium 2385
Gibberella saubinetii 147, 4871, 4878
Gibberella zeae 2415
Puccinia recondita 2403
Puccinia striiformis 138, 3827
Ziziphus jujuba, mosaic virus 288
China aster (see *Callistephus chinensis*)
Chinese cabbages
Erwinia carotovora ssp. *carotovora*
control 2671
ecology 785
Japan 2671
Chinese cabbages *contd.*
Peronospora parasitica
control 3314
Thailand 3314
Plasmodiophora brassicae
control 2187
infection 2190, 4038
Japan 2681
soil fungistasis 2681
soil water relations 2190
ultrastructure 2680
ribgrass mosaic virus, cytology 4037
turnip mosaic virus, Taiwan 1683
turnip yellow mosaic virus
control 4497
protoplasts 4641
RNA 4641
viruses
characteristics 4035
China 4035
ultraviolet radiation 4036
Chinese gooseberry (see *Actinidia chinensis*)
Chinoin, laboratory tests, *Valsa cincta* 1347
Chinoin fundazol
control
Botrytis cinerea, lupins 1090
Pleiochaeta setosa, lupins 1090
Chinosol
activity, fruit trees 3099
control, *Chondrostereum purpureum,* stone fruits 3914
Chionochloa
Chalara graminicola, New Zealand 2326
Periconiella liberatas, New Zealand 2326
Spadicoides sphaerospermum, New Zealand 2326
Chloramphenicol
activity
Glomus caledonium 4607
potatoes 3952, 4410
rice 1021
tobacco mosaic virus, tobacco 4765
inhibition, *Pseudomonas pisi* 2141
laboratory tests, *Corynebacterium michiganense* pv. *michiganense* 3997
Chlorides, soil treatments 1888
Chlorine, control, pear, decay 273
Chlorine dioxide, control, potatoes, bacterial diseases 2120
Chlormequat, seed treatments, barley 163
Chlornonizid, control, wheat, root rots 989
Chloroneb
activity, fungi 4131
seed treatments
cotton 212
groundnuts 1721
soyabeans 490
Chloropicrin
activity, tomatoes 3989
control, wood destroying fungi 3305
laboratory tests, sclerotia 875
soil treatments 280, 389, 3245
Chlorothalonil
activity, *Sclerotinia minor* 4066
control
Albugo candida, radishes 4040
Albugo occidentalis, spinach 3678
Botrytis cinerea, strawberries 3582
Cochliobolus, Zizania aquatica 652
Cochliobolus miyabeanus, rice 1506
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278, 1279
Colletotrichum trichellum, ivy 3071
Cylindrocladium heptaseptatum, Rumohra adiantiformis 2017
Drechslera, Lolium perenne 2525
Fulvia fulva, tomatoes 2638, 3242
Glomerella cingulata, rubber 738
groundnuts, diseases 5041
Mycosphaerella, groundnuts 4070
Peronospora parasitica, radishes 4040
Phaeocryptopus gaeumannii, Pseudotsuga menziesii 5006, 5007
Phyllosticta musarum, bananas 4379
Phytophthora nicotianae var. *parasitica, Piper betle* 2066, 4962
potatoes, diseases 4972
Pseudomonas syringae pv. *tomato,* tomatoes 4446
Puccinia arachidis, groundnuts 3368, 4070
Puccinia melanocephala, sugarcane 3971

Chlorothalonil *contd.*
control *contd.*
Pyrenophora teres, barley 3503
Pyricularia oryzae, rice 1034
radishes, diseases 1254
Rhabdocline pseudotsugae, *Pseudotsuga menziesii* 776
Septoria apiicola, celery 2690
strawberries, diseases 281
fungicide tolerance, plant pathogens 3424
phytotoxicity, sesame 727
residues, potatoes 1615, 1616
seed treatments, maize 1912
Chlortetracycline, control, *Xanthomonas campestris* pv. *vesicatoria*, *Capsicum* 1752
Choanephora cucurbitarum
figs 3919
physiology 4169
ultrastructure 926
Choanephora infundibulifera, physiology 4169
Chondrostereum purpureum
apples 704
apricots 3914
cherries 713, 3914
Eucalyptus delegatensis 4464
fruit trees 1092
pears 974, 4713
plums 974
pome fruits 3097
Prunus triloba 3058
stone fruits 3097
trees 4644
Chosenia, *Melampsora*, Japan 3275
Chosenia arbutifolia, *Melampsora kamikotica*, Japan 3275
Chrysalidocarpus lutescens
fluoride, damage 2075
Setosphaeria rostrata, irrigation 218
Chrysanthemoides monilifera* subsp. *monilifera, *Aecidium osteospermum*, biological control 840
Chrysanthemum
Chrysanthemum chlorotic mottle viroid, interactions 2368
Didymella ligulicola, taxonomy 3063
diethylaminoethanol, damage 2368
Fusarium oxysporum f.sp. *chrysanthemi*
control 4865
soil amendments 4865
spread 3536
testing 3537
varietal reactions 3537
ozone, damage, varietal reactions 1414
Pseudomonas cichorii
Florida 3538
symptoms 3538
Puccinia horiana
control 3884
induced resistance 3814
Italy 3884
symptoms 3884
Septoria chrysanthemella
control 4324
environmental factors 4324
Taiwan 4324
viruses, quarantine 2805
***Chrysanthemum* chlorotic mottle viroid**
characteristics 2902
Chrysanthemum 2368
Chrysanthemum coronarium
Bremiella chrysanthemi-coronariae
China 2934
nomenclature 2934
Bremiella multiformis
China 2934
taxonomy 2934
Chrysanthemum morifolium, viroids, UK 1995
***Chrysanthemum* stunt viroid**, characteristics 2902
Chrysomyxa keteleeriae, nomenclature 426
Chrysomyxa ledi, spruce 104
Chrysosporium, clover 4929
Cicadulina mbila, transmission, maize streak virus 4884
Cicer arietinum
Alternaria
environmental factors 3716
Madhya Pradesh 3716
Alternaria brassicicola, seeds 1735
Cicer arietinum *contd.*
Ascochyta rabiei
biochemistry 4816
climatic zones 2371
genetics 4076
pathogenicity 3718
resistance 4076
varietal reactions 3717
vitamins 1736
Botrytis cinerea
India 3714
testing 3715
varietal reactions 3714
diseases
Bangladesh 2737
control 4078
India 2737
Nepal 2737
testing 2737
Victoria 3713
fungi, interactions 3380
fungicides, phytotoxicity 4552
Fusarium, inoculation 1737
Fusarium oxysporum f.sp. *ciceri*
genetics 816, 1732
India 502
races 502
Fusarium solani
control 504
susceptibility 1739
Macrophomina phaseolina
cultures 2224
Haryana 4820
inoculation 4819
phenols 4818
varietal reactions 4820
ozone, damage 2229
Pythium ultimum
aetiology 2225
control 2225
varietal reactions 2225
yield losses 2225
Rhizoctonia solani
control 504
susceptibility 1739
rhizosphere fungi, foliar spraying 817
Sclerotium rolfsii
control 504
susceptibility 1739
testing 3719
varietal reactions 3719
storage decay, control 5045
sulphur dioxide, damage 2229
Thanatephorus cucumeris, India 505
Uromyces ciceris-arietini, India 818
Cicer kabulinum, storage decay, control 5045
Cichorium endivia (Endives)
Cichorium intybus (see Chicory)
Circulifer tenellus
transmission
beet curly top virus 433
horseradish virus 340
Spiroplasma citri 102, 3189, 3808, 3809
Cirsium arvense
cucumber mosaic virus, Italy 4567
mycoplasmas, ultrastructure 3810
Cissampelos pareira, *Schizotrichella cissampelosa*, India 342
Cissus rhombifolia
Pestalotia menezesiana
Canada 2510
nomenclature 2510
Cistus
Tuber
cultivation 889
mycorrhizas 889
Citral, control, wheat, storage decay 1435
Citrange, Pierces disease bacterium, symptoms 671
Citron, *Ceratocystis paradoxa*, mycotoxins 3866
Citrullus lanatus (see Watermelons)
Citrullus vulgaris* var. *fistulosus, *Geotrichum candidum*, biochemistry 4798
Citrus
albinism, control 3863
Alternaria alternata, cultures 2493
Alternaria citri, control 1974, 3863
Aspergillus
biochemistry 3051
Citrus *contd.*
Aspergillus contd.
enzymes 1518
Aureobasidium pullulans, India 1044
blight
aetiology 1513, 1967
control 1513, 1967, 1968
reviews 2492
blossom-end yellowing, epidemiology 1042
Botryodiplodia theobromae
control 2494, 4691
Taiwan 4691
Capnodium citri, control 669
Ceratocystis paradoxa
India 1517
mycotoxins 3866
symptoms 1517
chlorosis, soil 2495
citrus impietratura virus, epidemiology 203
citrus mosaic virus, detection 668
citrus psorosis virus, epidemiology 203
citrus tristeza virus
control 4301
disease models 4301
Israel 4301
Italy 3864
rootstocks 1969
Spain 4302
spread 4301
Cochliobolus lunatus, ascorbic acid 1519
decline
irrigation 666
Niger 665, 666
soil conditions 665, 666
Deuterophoma tracheiphila
control 3043
Mediterreanean countries 4692
pathogenicity 4692
pigments 4693
rootstocks 3044
varietal reactions 3043, 3044
Diaporthe citri
control 2494, 3047, 3048, 3865, 4691
enzyme activity 3042
forecasting 3865
infection 2491
simulation 3865
Taiwan 4691
diseases
Argentina 4099
certification 2928
Italy 2928, 3041
quarantine 3041
testing 3041
Elsinoë fawcettii
control 1971
Florida 1971
fungi
ethylene 4910
symptoms 1514
Fusarium solani, physiology 1516
Geotrichum candidum
interactions 1973
susceptibility 1975
Glomerella cingulata
environmental factors 1970
enzyme activity 3042
Glomus etunicatus, inoculation 3436
Glomus intraradices, mycorrhizas, water relations 1815
Glomus mosseae, inoculation 3436
green spot
Iran 4300
transmission 4300
greening
control 664
hot air treatment 204
varietal reactions 667
Meliola, India 208
mineral deficiencies, molybdenum 3052
Murcott decline, control 1968
Mycosphaerella citri, host parasite relationships 4304
Penicillium, Egypt 4306
Penicillium digitatum
control 1972
cytology 4695
enzyme activity 3042
interactions 1973
penetration 4695

Citrus *contd.*
Penicillium italicum
control 3049
ethylene 4307
fungicide tolerance 670, 3050, 4306
Phytophthora nicotianae var. *parasitica*
control 3045
Sarawak 3045
varietal reactions 3046
Rhizoctonia solani
control 4908
India 4908
satsuma dwarf virus, detection 668
soil fungi, Iraq 1043
Spiropes guareicola, India 208
Spiroplasma citri, properties 3807
stem pitting, rootstocks 3040
storage decay
control 4909
enzymes 4305
storage disorders, India 208
Syncephalastrum racemosum, India 1044
Trichoderma viride, enzyme activity 3042
viruses
elimination 4303
France 3038
Italy 2904
Mediterranean countries 4602
Reunion 3039
Spain 4303
symptoms 3039
transmission 3039
yield losses 3038
Xanthomonas campestris pv. *citri*
Argentina 1977
Brazil 1976
control 673, 1046, 3527
resistance 672
reviews 3526
spread 1977
symptoms 1045
testing 3867
USA 3526
Citrus aurantifolia (see Lime (citrus))
Citrus aurantium (see Oranges)
Citrus exocortis viroid
characteristics 2902
tomatoes 607, 726, 3794
Citrus impietratura virus, grapefruits 203
Citrus jambhiri, Pierces disease bacterium, symptoms 671
Citrus leaf rugose virus, serological relationships 1846
Citrus limonia (see Lemons)
Citrus medica (see Citron)
Citrus mosaic virus, satsumas 668
Citrus paradisi (see Grapefruits)
Citrus psorosis virus, grapefruits 203
Citrus sinensis (see Oranges)
Citrus tristeza virus
citrus 3039, 3864, 4301, 4302
detection 3864
lime (citrus) 1969
RNA 3455
Citrus variegation virus, serological relationships 1846
Citrus vein enation woody gall virus, citrus 3039
Cladobotryum amazonense, toxins 8
Cladobotryum dendroides, mushrooms 1314
Cladobotryum varium
hyperparasitism, *Puccinia graminis* 3482
testing 3482
Cladosporium
barley 1872, 3833
control, *Melampsora larici-populina,* poplars 1660
cucumbers 449
fungicide tolerance 873
grapevines 4733
wheat 1872, 4237
Cladosporium allii-cepae, onions 1317, 5055
Cladosporium caryigenum, pecans 3665, 4999
Cladosporium cladosporioides
carrots 3316
control
Erysiphe polygoni, peas 4513
Melampsora larici-populina, poplars 1660
Cladosporium cladosporioides *contd.*
epidemiology, *Fagus,* diseases 2646
hyperparasitism, *Melampsora larici-populina* 772
peas 4513
radishes 1688
Cladosporium cucumerinum
cucumbers 4791
fungicide tolerance 3761
inhibition 639
toxins 2794
Cladosporium herbarum
Eucalyptus 4778
hyperparasitism, *Melampsora larici-populina* 772
laboratory tests
flavonoids 35
phytoalexins 35
wheat 2959
Cladosporium tenuissimum
control, *Melampsora larici-populina,* poplars 4017
hyperparasitism, *Melampsora larici-populina* 772
Cladosporium zizyphi, *Ziziphus mauritiana* 1588
Claviceps fusiformis
Cenchrus ciliaris 4892
Pennisetum americanum 1922, 2451, 4892, 4893
Clavicéps purpurea
Agropyron repens 3890
Gibberella gordonia, hyperparasitism 3890
Lolium perenne 3890
rye 645, 1477
triticale 617
Clementines
mineral deficiencies, molybdenum 3052
Penicillium italicum, fungicide tolerance 3050
viruses
France 3038
yield losses 3038
Cleome spinosa, *Albugo chardoni,* USSR 75
Clostridium
carrots 858
control, *Fusarium* 110
potatoes 4422
soil 858
Clover
actinomycetes, nodulation 3088
alfalfa mosaic virus, detection 4859
bean yellow mosaic virus
interactions 1085
relationships 3886
boron, nutrition 3891
clover yellow vein virus
host parasite relationships 2024
relationships 3886
Codinaea fertilis, host parasite relationships 2024
Colletotrichum trifolii, races 250
diseases
control 2532, 2533
Egypt 2532, 2533
Endogonaceae, mycorrhizas, mineral content 3769
fungi, nodulation 3088
fungicides, activity 4595
gases, damage 1417
Glomus clarum, mycorrhizas, fungicides 2823
Glomus etunicatum, mycorrhizas, inoculation 50
Glomus fasciculatum, mycorrhizas, testing 4150
Glomus monosporum, mycorrhizas, interactions 2833
Glomus mosseae, mycorrhizas, inoculation 50
Glomus tenuis
mycorrhizas
interactions 2833
nodulation 890
groundnut stunt virus, Arkansas 1403
Kabatiella caulivora
control 251
environmental factors 251
Western Australia 251
mineral deficiencies
boron 3898
Clover *contd.*
mineral deficiencies *contd.*
copper, diagnosis 1554, 1555
manganese, diagnosis 3897
molybdenum, diagnosis 3897
mycorrhizas 1371
infection 3775
nitrogen assimilation 3768
physiology 2834
rotations 1369
taxonomy 1366
viability 558
ozone
damage, Ontario 1086
fertilizers 2522
Phytophthora, interactions 1085
Phytophthora megasperma, morphology 2890
Pseudomonas viridiflava, aetiology 4928
Rhizoctonia solani, deterioration 4922
Sclerotinia trifoliorum
apothecia 4347
Austria 3896
biology 692
Mississippi 692
Northern Ireland 960
testing 4347
varietal reactions 1857
soil fungi
New Zealand 4929
roots 4929
subterranean clover mottle virus
relationships 2531
RNA 2531
Western Australia 2531
viruses, Tennessee 4927
Clover phyllody, *Catharanthus roseus* 2508
Clover (red) mottle virus, beans (*Phaseolus*) 3692
Clover (red) vein mosaic virus, clover 4927
Clover yellow mosaic virus, RNA 1852
Clover yellow vein virus
clover 2024, 3886, 4927
squash 3684
Cloves
bacteria
antibiotics 4737
serological relationships 4737
Sumatra 4737
Phyllosticta
control 4395
Indonesia 4395
CMI descriptions, plant pathogens 84, 85, 2895, 2896
CMI distribution maps, plant diseases 950
CMI/AAB descriptions, plant viruses 89
Co 4462, fungicide tolerance, *Monilinia laxa* 4938
Co 6054
control, *Monilinia laxa,* stone fruits 4938
fungicide tolerance, *Monilinia laxa* 4938
Cobox
control
Ceratocystis fimbriata, coffee 3876
Glomerella cingulata, coffee 3529
Cochliobolus, nomenclature 2338
Cochliobolus carbonum
maize 1016, 1017, 1018, 3508, 3849, 4889
races 2328
Tephrosia bidwilli 962
Cochliobolus cymbopogonis, CMI descriptions 84
Cochliobolus geniculatus, CMI descriptions 84
Cochliobolus hawaiiensis
CMI descriptions 84
physiology 4280
Cochliobolus heterostrophus
genetics 3848
maize 648, 1478, 1479, 1484, 1486, 1487, 2443, 2996, 3508, 3736, 3846, 3847, 3848, 4599, 4673, 4888, 4921
physiology 4280
Cochliobolus lunatus
control, *Erysiphe polygoni,* peas 4513
Dioscorea pentaphylla 1766
laboratory tests 3445
maize 1915, 4672
oranges 1519
peas 1698, 4513
physiology 4175
rice 1501, 4897, 4898

Cochliobolus lunatus *contd.*
sorghum 186, 2449, 4281
sugarcane 105
Cochliobolus miyabeanus
coumarins 4600
fungicidal plants 1946
laboratory tests
drugs 1358
pollen 2802
rice 195, 197, 198, 199, 661, 1027, 1501, 1505, 1506, 1946, 1947, 1948, 1949, 3006, 3854, 3857, 4897, 4898
sporulation 2839
variations 1949
Zizania aquatica 652, 4900
Cochliobolus sativus
Agrostis 3892
barley 117, 1475, 2386, 2390, 2986, 4226, 4229, 4869, 4879
cereals 986, 2367
interactions, amoeba 583
laboratory tests
herbicides 33
phenylthiourea 34
Lolium 4341
maize 4279
Phleum pratense 2367
physiology 4279
Poa annua 247
Poa pratensis 4344
soil 921, 1823, 4186, 4229
spore germination 2390, 2841
wheat 117, 118, 921, 954, 1445, 1446, 2386, 2390, 2411, 2960, 2961, 4226, 4229, 4239, 4240, 4869, 4872
Zizania aquatica 652, 4900
Cochliobolus setariae, palms 346
Cochliobolus spicifer
bananas 4724
groundnuts 1300
Cochliobolus victoriae
oats 2989
soil 2321
Cocksfoot mild mosaic virus
Dactylis glomerata 841
detection 1551
wheat 613
Cocksfoot mottle virus, *Dactylis glomerata* 841, 2023
Cocksfoot streak virus, *Dactylis glomerata* 1548
Cocoa
cacao swollen shoot virus
detection 3474, 4867
preservation 3474
purification 4867
Corticium salmonicolor, basidiospores 976
Crinipellis perniciosa
Ecuador 1422
histology 1421
reviews 1422
diseases
Brazil 8
India 4104
Moniliophthora roreri
biological control 2947
Colombia 2947
Phytophthora
Brazil 112, 2374
cultures 975
integrated control 612
Togo 612
varietal reactions 2374
virulence 112, 2374
zoospores 2375
Phytophthora palmivora
biological control 113
control 1869, 2948, 3475, 3815
Papua New Guinea 1869, 3475
phytoalexins 611
resistance 611
Coconut cadang-cadang viroid, characteristics 2902
Coconuts
antibiotics, phytotoxicity 3197
cadang-cadang
Philippines 729
reviews 2074
RNA 729, 1153
South East Asia 2074
Colombia 345

Coconuts *contd.*
diseases
control 2073
India 4104, 4407
dry bud rot
control 2076
Ivory Coast 2076
transmission 2076
flagellates, reviews 2072
Ganoderma lucidum
control 3194
fertilizers 3194
India 4407
hartrot
control 1610
Suriname 4965, 4966
transmission 4966
varietal reactions 1611
lethal disease
indexing 4745
mycoplasmas 4745
Tanzania 4745
lethal wilt, *Phytomonas staheli* 345
lethal yellowing
epidemiology 1156
Jamaica 349
root systems 349
South America 3936
transmission 4408
pencil point wilt, fertilizers 3199
Pestalotiopsis palmarum, sporulation 3198
Phytomonas
control 1610
varietal reactions 1611
Phytomonas staheli
Suriname 4965, 4966
transmission 4966
root (wilt)
India 348, 4833
Kerala 4746
mycoplasmas 4746
root rots 348
Spiroplasma
Jamaica 2077
testing 2077
Thanjavur wilt
control 3194, 3195, 3196
fertilizers 3194
Cocos nucifera (see Coconuts)
Codinaea fertilis, clover 2024, 4929
Coelidea indica, transmission, sandal spike 1231
Coffee
Ceratocystis fimbriata
aetiology 3876
control 3876
transmission 3876
diseases
conferences 3869
Kenya 3734
fungicides, residues 3870
Glomerella cingulata
control 1981, 3529, 4308, 4311, 4314
estimation 1982
Kenya 1981, 3529
Hemileia coffeicola, reviews 674
Hemileia vastatrix
Brazil 1048, 1049, 2497, 3053, 3879
control 1048, 1979, 3871, 3872, 3873, 4311
environmental factors 1049, 2497, 3874
forecasting 1980
genetics 1049
Guatemala 209
infection 1978
Kenya 1979
Mexico 3528
models 1978, 1980
races 3879
reviews 674
South America 2496
testing 1047
varietal reactions 3053
virulence 3879
Koleroga noxius
control 3877
Guatemala 3877
Mycena citricolor
epidemiology 3875
yield losses 3875

Coffee *contd.*
Phoma costarricensis
environmental factors 4312
India 4312
Phyllosticta coffeicola
control 1983
Guatemala 1983
Pseudomonas syringae, control 4308, 4314
Rhizoctonia solani
inoculum 4313
survival 3054
seed treatments 4309
spraying equipment 4310
Coix lachryma-jobi
Drechslera coicis
cultivation methods 2452
Japan 2452, 2453
seed treatments 2454
sources 2453
Ustilago coicis
control 2456
seed treatments 2454
spore germination 2455
Thailand 3515
Cold shock, inhibition, tobacco mosaic virus 752
Cold storage, apples 1565
Cold stress, cotton 1520
Coleus, Gigaspora reticulata, mycorrhizas, taxonomy 2305
Colladonus geminatus, transmission, western X disease 1107
Colladonus montanus, transmission, western X disease 1107
Colletotrichum
clover 4929
cotton 675
potatoes 350
tomatoes 1643
trees 1652
Trichoderma, antagonism 1389
Colletotrichum acutatum, Anemone 1999
Colletotrichum capsici
Capsicum 519, 1751, 1858, 3394, 3729, 4569
laboratory tests
antifungal agents 2803
plant extracts 4134
Piper nigrum 1145
Colletotrichum circinans, onions 4560
Colletotrichum coccodes, tomatoes 389, 3236, 3654
Colletotrichum dematium
papayas 3148
physiology 4174
Colletotrichum destructivum, soyabeans 807
Colletotrichum fragariae, strawberries 1581, 3916
Colletotrichum graminicola
cereals 2954
maize 648, 1014, 1418, 1917
sorghum 180, 181, 184, 1418, 2449
soyabeans 807
Colletotrichum lagenarium
appressoria 575
cucumbers 1263, 1691, 4791
melons 1266, 1267
mutants 575
watermelons 2697, 3319
Colletotrichum lindemuthianum
activity, beans (*Phaseolus*) 5030
beans (*Phaseolus*) 1, 462, 796, 973, 1278, 1279, 2206, 2756, 3332, 3693, 3695, 4054, 4522, 4523, 4524, 4644, 4866, 5030
genetics 467
Lablab purpureus 1307
polypeptides 1444
races 467
Colletotrichum manihotis, cassava 3397
Colletotrichum musae
bananas 3143
iron 4381
spore germination 4381
Colletotrichum piperis, Piper nigrum 1145
Colletotrichum tabacum, tobacco 3220
Colletotrichum trichellum, ivy 3071
Colletotrichum trifolii
hosts 250
lucerne 255, 257, 3899

***Colletotrichum truncatum*, soyabeans** 491, 807, 810, 4539, 4543, 4812
***Collybia*, antifungal agents, plant pathogens** 881
***Colocasia antiquorum*, storage decay, control** 4087
Colocasia esculenta
Ceratocystis fimbriata
host parasite relationships 2752
spores, agglutination 2752
Colombia
beans (*Phaseolus*)
Colletotrichum lindemuthianum 4522, 4524
diseases 2206, 4054
carnations, *Fusarium oxysporum* f.sp. *dianthi* 4322
cassava, diseases 4576
cocoa, *Moniliophthora roreri* 2947
Fusarium crookwellense, hosts 1831
plant diseases 2521
potatoes, diseases 2591
Colorado, wheat, fungi 4872
***Colpoma quercina*, oak** 4015
Columbian *Datura* virus, relationships 1720
***Columnea*, *Corynespora cassiicola*, pathogenicity** 220
***Columnea* viroid, characteristics** 2902
Comazin, control, *Alternaria ricini*, *Ricinus communis* 2578
Conen, control, *Fusarium solani* f.sp. *pisi*, peas 1694
Conferences (see also Reports)
Air pollution in agriculture and horticulture 851
American Phytopathological Society 529, 552, 1328, 1774, 2764, 3739, 4107
Arctic and alpine mycology 1772, 1810, 1811
Biological control in crop production 4114
Biological control of water hyacinth 4579
Biometeorology in integrated pest management 535
Canadian Phytopathological Society 850
Decision making in the practice of crop protection 2759
Deterioration mechanisms in seeds 2763, 2769, 2770, 2771
Durable resistance in crops 4834
EPPO, pesticides 30
Faba bean improvement 4530, 4531, 4532, 4533, 4534, 4535, 4536
Fastidious prokaryotes as plant pathogens 2788, 2925, 3083, 3124, 3129, 3189
French Phytopathological Society 531, 2761
Grapevine grey mould 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333
Indian Society of Mycology and Plant Pathology, Pantnagar 4585
International on barley genetics, Edinburgh, UK 1452, 1453, 1454, 1456, 1457, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1472
International on cultivation of edible fungi, Sydney, Australia 1311, 1312
International on pesticide use in developing countries 2790, 2793, 3023, 3314
International on *Phytophthora* 3414
International on plant protection in the tropics 1779, 1780, 1781, 1782, 1797, 1806, 1807, 1808, 1809, 1839, 1840, 1861, 1868, 1869, 1943, 1944, 1945, 2073, 2074, 2078, 2128, 2133, 2253, 2256
International Society for Mushroom Science 1741
Korean Society of Mycology 4106
Korean Society of Plant Protection 849
Latin American on coffee cultivation 3869
Conferences *contd.*
Management of diseases of oilseed crops 2760, 2938, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3194, 3195, 3196, 3197, 3199, 3282, 3283, 3284, 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371
Microbes in their natural environment 2762
Mycorrhizas, Dijon, France 4604
NATO Advanced Study Institute, Italy 4834
North American on mycorrhizas 2810, 2811, 2812, 2820, 2821, 2830, 2831, 2838
Pesticide tolerance 868, 870, 871, 970
Pesticides for plant protection, Lisbon, Portugal 2792
Phytopathological Society Japan 530
Phytophthora diseases of tropical cultivated plants 3406
Plant infection, physiological and biochemical basis 2258
Plant selection for resistance to diseases, Bordeaux, France 4586, 4617, 4618, 4619, 4631, 4632, 4633, 4641, 4647, 4659, 4663, 4664, 4665, 4673, 4719, 4732, 4768, 4793, 4827
Post-harvest losses in the Caribbean 4584
Root crops in eastern Africa 1759, 1760, 1761, 1764
São Paulo Group of Plant Pathologists, Piracicaba 3740
Sclerotinia, diseases 2257
Society for General Microbiology 2762
South African, maize breeding 4883
Vesicular-arbuscular mycorrhizae and plant disease research 552, 553, 554, 555, 556, 557
Virus diseases of Gramineae in Europe 1329, 1424, 1425, 1426, 1427, 1431, 1432, 1433, 1458, 1459, 1481, 1482, 1492, 1498, 1540, 1542, 1543, 1544, 1545, 1546, 1548, 1549, 1550, 1551
***Conidiocarpus penzigi*, India** 2365
Coniferae
diseases
biochemistry 1234
stress factors 1234
fungi, leaves, physiology 3287
Gremmeniella abietina, classification 1235
Lachnellula
Japan 412
pathogenicity 412
mycorrhizas, host specificity 2813
Phytophthora cinnamomi, epidemiology 1866
Seiridium, New Zealand 4474
Coniophora
nomenclature 3788
taxonomy 3788
Coniophora puteana
poplars 430
timber 430, 3304
Coniothyrium fuckelii
larch 1219
oak 2656
pines 4485
Coniothyrium minitans
CMI descriptions 85
hyperparasitism, *Sclerotinia sclerotiorum* 3610
Connecticut
acid rain 2772
air pollution 2772
tobacco, *Peronospora tabacina* 4430

Controlled atmosphere storage, activity, cabbages, black speck 4501
Copcel, control, *Glomerella cingulata*, coffee 1981
Copper
activity, *Diaporthe citri* 3047, 3048
control
Alternaria ricini, *Ricinus communis* 2578
Aphanomyces euteiches, peas 1271
apricots, diseases 1112
Copper *contd.*
control *contd.*
Botryodiplodia, rubber 739
coffee, diseases 4314
Elsinoë fawcettii, citrus 1971
Erwinia, potatoes 1186
Erwinia amylovora
apples 1566
pears 1566
Gaeumannomyces graminis, barley 3478
Hemileia vastatrix, coffee 3873
Leptosphaeria coniothyrium, roses 1074
Mycosphaerella citri, grapefruits 206
Phytophthora infestans, tomatoes 1213
Phytophthora palmivora, cocoa 3475
Pseudomonas syringae pv. *tomato*, tomatoes 3996, 4446
rubber, diseases 1189
Xanthomonas campestris pv. *vesicatoria*, *Capsicum* 5061
deficiencies, clover 1554, 1555
fungicide tolerance, *Botrytis cinerea* 4731
tolerance, *Xanthomonas campestris* pv. *vesicatoria* 5061
toxicity, *Mimulus guttatus* 4329, 4330
Copper hydroxide
control
avocados, storage decay 3589
Koleroga noxius, coffee 3877
Pseudocercospora purpurea, avocados 3587
Pseudomonas syringae pv. *syringae*, apricots 2554
Copper Nordox, control, *Glomerella cingulata*, coffee 3529
Copper oxide, control, *Phytophthora megakarya*, cocoa 612
Copper oxychloride
control
Akaropeltopsis, avocados 4945
Alternaria ricini, *Ricinus communis* 2578
avocados
postharvest decay 4946
sooty blotch 3588
storage decay 3589
Ceratocystis fimbriata, coffee 3876
Cercospora beticola, beet 436
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278, 1279
Dothiorella aromatica, avocados 3588, 4945
Exobasidium vexans, tea 2626
Glomerella cingulata
avocados 3588, 4945
coffee 1981
Hemileia vastatrix, coffee 1048
Mauginiella scaettae, date palms 2588
Monographella albescens, rice 2478
Phaeodactylium venkatesanum, *Elettaria cardamomum* 3931
Phomopsis vexans, eggplants 3396
Phytophthora infestans, potatoes 3949
Phytophthora nicotianae var. *parasitica*, *Piper betle* 2066
Pseudocercospora aromatica, avocados 4947
Pseudocercospora purpurea, avocados 3587, 4945
tobacco, diseases 3220
Xanthomonas campestris pv. *citri*
lime (citrus) 673
oranges 1046
Xanthomonas campestris pv. *malvacearum*, cotton 1523
laboratory tests
Aspergillus alternata 4069
Setosphaeria rostrata 2153
Copper oxyquinolate, seed treatments, wheat 990
Copper Sandoz
control
Koleroga noxius, coffee 3877
Phytophthora palmivora, *Piper nigrum* 3171
Copper Sandoz MZ, control, *Glomerella cingulata*, coffee 3529

Copper sulphate
control
Pseudomonas cichorii, Pelargonium 3543
tomatoes, diseases 2156
Xanthomonas campestris pv. *vesicatoria*
Capsicum 1752
tomatoes 2156
fungicide tolerance
Elsinoë ampelina 1350
plant pathogens 3424
Coprinus, Pleurotus sajor-caju 4082
Coprinus psychromorbidus
Alaska 4670
Alberta 4670
rye 4670
Coprochem, control, *Mauginiella scaettae,* date palms 2588
Coptis, Phytophthora citrophthora, Japan 3191
Corchorus aestuans, Alternaria alternata, India 1413
Cordana martini, Cymbopogon martini var. *motia* 341
Cordyline terminalis, Phytophthora nicotianae var. *parasitica,* sporangia 2312
Coriandrum sativum
Macrophomina phaseolina, India 2576
Protomyces macrosporus, biochemistry 4738
Pythium irregulare
control 1599
India 1599
seedborne fungi
Andhra Pradesh 4736
India 1596
Coriolus versicolor
antagonism, *Heterobasidion annosum* 3780
apples 3117, 4013
enzymes 3673
forest trees 4029
growth 3673
Coriolus zonatus
enzymes 3673
growth 3673
Coronilla varia, Colletotrichum trifolii, races 250
Corticium fuciforme, lawns and turf 3081
Corticium rolfsii
Aspergillus terreus, infection 9
Trichoderma, antagonism 4618
Corticium salmonicolor
cocoa 8, 976
cultures 976
rubber 2937
Corticium sasakii
laboratory tests, fungicides 3858
rice 2475, 3006
Corticium solani, rice 3009
Cortinarius, antifungal agents, plant pathogens 881
Corynebacterium
activity, *Fusarium oxysporum* f.sp. *apii* 4790
bacteriocins 4773
classification 3752
freezing 1783
identification 2270, 4120
numerical taxonomy 4120
plant pathogens 2269
taxonomy 18
wheat 18
Corynebacterium fascians
celery 1788
Datura innoxia 862
Pelargonium zonale 1788
Corynebacterium flaccumfaciens* pv. *flaccumfaciens
beans (*Phaseolus*) 3696
Phaseolus 469
preservation 3696
soyabeans 2728, 3340
Corynebacterium flaccumfaciens* pv. *poinsettiae, CMI distribution maps 950
Corynebacterium michiganense, tomatoes 4773
Corynebacterium michiganense* pv. *insidiosum
lucerne 252, 693, 696, 1087, 1088, 2534, 3899
serology 1342
Corynebacterium michiganense* pv. *michiganense
serology 1342
tomatoes 1215, 1650, 3234, 3737, 3997, 3998
Corynebacterium michiganense* pv. *nebraskense, CMI distribution maps 950
Corynebacterium michiganense* pv. *sepedonicum
potatoes 1623, 2621, 3956, 4757, 4758, 4978
serology 1342
Corynespora, soyabeans 3704
Corynespora cassiicola
Aphelandra squarrosa 2002
ornamentals 220
papayas 4383
rubber 1189
Cosmic, control, *Erysiphe graminis,* barley 151
Cosmos sulphureus, seedborne fungi, environmental factors 2511
Costa Rica, beans (*Phaseolus*), *Rhizoctonia solani* 4056
Cotoneaster dammeri, Erwinia amylovora, France 1063
Cotton
Agrobacterium tumefaciens
interactions 1524
Israel 1524
blue disease
Central Africa 210
control 210
transmission 210
diseases
control 212, 1984
fertilizers 1051
reviews 1984
rotations 1051
Turkey 1051
fungi
fibre quality 1050
transmission 675
fungicidal properties 1360
Fusarium
inoculation 3878
seed treatments 3878
Fusarium oxysporum f.sp. *vasinfectum*
antifungal agents 4647
breeding 2500
control 1988, 2500, 3811
genetics 4647
herbicides 2498, 2499, 3880
host parasite relationships 676
interactions 1052
irrigation 4911
Israel 4647
phenols 1987
races 4647
spread 4911
varietal reactions 213, 3530, 4647
Leptoxyphium bahiense, aetiology 1992
Macrophomina phaseolina
control 1521
varietal reactions 1521
phyllody
control 1985
Ivory Coast 1985
spread 1985
Phymatotrichopsis omnivora, water relations 3055
Pythium ultimum, biological control 3056
Ramularia gossypii, varietal reactions 678
Rhizoctonia solani
biological control 677, 4315
control 908, 1991
herbicides 1986
rhizosphere fungi 1986
susceptibility 1520
Turkey 1986
soil fungi, control 3784
Thielaviopsis basicola f.sp. *gossypii,* Bulgaria 3881
Verticillium
inoculation 3878
seed germination 214
seed treatments 3878
toxins 214
Verticillium albo-atrum, susceptibility 1520
Cotton *contd.*
Verticillium dahliae
breeding 1054
control 1054
environmental factors 954
herbicides 1986
host parasite relationships 676
models 1989
nematodes 4696
races 3531
resistance 1990
rhizosphere fungi 1986
Turkey 1986
USSR 954, 1054
varietal reactions 1053, 3531
viruses, Argentina 211
Xanthomonas campestris pv. *malvacearum*
Chad 1993
control 1522, 1523
enzymes 1057
genetics 215
hypersensitivity 3882
physiology 679
phytoalexins 2501
races 215
reviews 1994
ultrastructure 1055, 1056
varietal reactions 1993, 3882
Coumarin, control, *Pyricularia oryzae,* rice 3015
Coumarins, fungicidal properties 4600
Cowpea aphid-borne mosaic virus
beans (*Phaseolus*) 1700
cowpeas 2217
Cowpea chlorotic mottle virus
cowpeas 592, 2218
RNA 604
Cowpea mild mottle virus
characterization 2180
groundnuts 2729
soyabeans 3465
Cowpea mosaic virus
beans (*Phaseolus*) 2709
cowpeas 499, 1301, 1727
enzymes 606
RNA 2913, 4213
soyabeans 806
structure 4211
Cowpea severe mosaic virus
beans (*Phaseolus*) 461, 2709
cowpeas 500
Cowpea yellow mosaic virus, cowpeas 3376, 3709
Cowpeas
Agrobacterium tumefaciens
inoculation 1303
nucleic acids 1303
alfalfa mosaic virus
infection 2025
mutants 2911
protoplasts 2911, 4074
RNA 2216, 4074
bean distortion dwarf virus, hosts 3691
broad bean wilt virus
characterization 2731
China 2731
cowpea aphid-borne mosaic virus, transmission 2217
cowpea chlorotic mottle virus
elimination 592
protoplasts 2218
temperature 592
cowpea mosaic virus
enzyme activity 1301
host parasite reactions 1727
seed testing 499
cowpea severe mosaic virus, varietal reactions 500
cowpea yellow mosaic virus, Nigeria 3376
cucumber mosaic virus
interactions 3375
Nigeria 3376
RNA 2923
diseases
Brazil 2221
varietal reactions 2221
Zimbabwe 3709
Entyloma vignae, spore germination 2219
Fusarium solani, interactions 1270
Glomus, mycorrhizas, host parasite relationships 2304

Cowpeas *contd.*
golden mosaic
environmental factors 3328
epidemiology 3328
Nigeria 3328, 3377
transmission 3377
groundnut mottle virus
epidemiology 3375
infection 3375
interactions 3375
Myrothecium roridum, amino acids 4815
Phytophthora
Tanzania 2220
varietal reactions 2220
Phytophthora vignae, Taiwan 1302
Populus virus, indicator plants 1226
Pythium butleri, control 2735
Rhizoctonia solani, control 908, 2735
seed testing, Nigeria 3710
seedborne fungi
India 501
infection 2733
seed germination 501
susceptibility 2734
tobacco necrosis virus
enzymes 95
induced resistance 4491
tobacco streak virus, hosts 1402
tomato spotted wilt virus groundnut ring mosaic strain, plant extracts 3356, 3357, 3358
Uromyces vignae
chitin 2704
host parasite relationships 2732
Xanthomonas campestris pv. *vignaeunguiculatae*
genetics 2222
races 2222
symptoms 1728
Xanthomonas campestris pv. *vignicola,* symptoms 1728
Cranberries
Ceuthospora lunata
environmental factors 2044
New Jersey 2045
pathology 2045
storage decay, environmental factors 2044
Strasseria oxycocci
environmental factors 2044
New Jersey 2045
pathology 2045
Crataegus
Erwinia amylovora, epidemiology 3552
Gymnosporangium globosum, control 2369
Crataegus monogyna, *Cercospora crataegi,* Japan 584
Crataegus oxyacantha, *Cercospora crataegi,* Japan 584
Cresol, control, wheat, storage decay 1435
Crinipellis perniciosa
cocoa 8, 1421, 1422
spore germination 8
Cristulariella depraedens, *Acer pseudoplatanus* 2646
Cronartium coleosporioides, pines 4479, 4481
Cronartium comandrae, pines 3294, 4479, 5002
Cronartium comptoniae, pines 2173, 4479
Cronartium flaccidum
pines 1239, 1673, 2172
ultrastructure 2336
Cronartium fusiforme
oak 771, 1658, 2647, 3249
pines 2647, 2660, 2664, 3249, 3293, 3297, 3298
Cronartium keteleeriae, *Keteleeria* 426
Cronartium quercuum, pines 2173
Cronartium ribicola
Pedicularis resupinata 5003
pines 1241, 1242, 1668, 1671, 2663, 4024, 4479, 5003
Ribes 1241
Crop loss
apples 3106, 3109, 3560
avocados 3594
barley 154, 979, 983, 1001, 1903, 3504
beans (*Phaseolus*) 1274, 2713
beet 4032, 4496
Capsicum 1749
Caribbean 4584
Crop loss *contd.*
cassava 522, 4577
cereals 1871, 2377, 3816
clementines 3038
coffee 3875
cotton 1989
estimation 109
faba beans 2718
grapevines 1143, 2567, 3157
groundnuts 813, 1722, 3093, 3354, 5041
Lespedeza cuneata 3903
Lolium 1546
Lolium multiflorum 4707
Lolium perenne 2525
lucerne 3091
lupins 3093
maize 167, 171, 1909, 2439, 3849
mushrooms 1313
New Zealand 109
oats 1006
onions 825
pears 3567
pecans 4999
potatoes 1180, 2125, 2597, 3217, 3612, 3947, 4420, 4747, 4758, 4967
rice 1041, 1937, 2462, 3023, 3030, 3522, 3861
rye 983, 2435
safflower 2067
sesame 728
sorghum 98, 183, 1494, 4890
soyabeans 810, 3093, 3705, 4537
strawberries 3581
sugarcane 98, 2132, 2134, 3961
sunflowers 3179
sweet potatoes 1762
tomatoes 389
UK 109
viruses 92
wheat 979, 983, 998, 1432, 1447, 2965, 2975, 4237, 4253
Crop plants
fungi
fruits, books 537
seeds, books 537
Crops
Botrytis cinerea
fungicide tolerance 2946
Greece 2946
diseases
Africa 3735, 3736
Brazil 4221
control 957
Europe 4218
forecasting 957, 2345
India 2255
Indiana 951
information centres 958
Italy 4218
Japan 7
Latin America 4490
Martinique 3735, 3736
Mauritius 4102
mixtures 2768
models 2768
Nigeria 2758
Polynesia 3735
resistance, conferences 4834
Reunion 3735, 3736
Sarawak 2757
seed pathology 4221
seedborne organisms 4218
Singapore 1861
soil fungistasis 907
soilless culture 1862
UK 1326, 4093
USSR 957, 958
Victoria 2930
Fusarium
biological control 1863
soilless culture 1863
mineral deficiencies, boron 4850
mycorrhizas, economics 2831
ozone, damage 1414
post-harvest losses, Caribbean 4584
Pseudomonas syringae pv. *atrofaciens,* varietal reactions 4273
Pythium
biological control 1864
soilless culture 1864
Rhizoctonia solani
biological control 1864
soilless culture 1864
Crops *contd.*
root rots, sources 3812
seedborne viruses, control 593
soil fungi 2324
viroids, reviews 4752
Crotalaria juncea
diseases, control 4917
Fusarium udum, varietal reactions 217
tobacco mosaic virus, control 680
Croton bicolor, *Glomerella cingulata,* India 4626
Croton sparsiflorus, *Pseudomonas solanacearum,* infection 1768
Crown gall (see *Agrobacterium tumefaciens*)
Cruciferae
Erysiphe cruciferarum, host parasite relationships 1682
mycorrhizas, USA 4148
Plasmodiophora brassicae
California 3311
Oregon 3311
races 3311
Washington 3311
spinach, viruses, hosts 2679
Cryphonectria cubensis, *Eucalyptus* 2653
Cryphonectria parasitica
chestnuts 13, 398, 399, 400, 765, 1656, 2651, 3259, 3260, 3660, 4455, 4995
genetics 399
Cryptococcus, antagonism, *Venturia inaequalis* 3110
Cryptococcus fagisuga
epidemiology, *Fagus,* diseases 2646
Fagus 763
Cryptodiaporthe populea, poplars 4018, 4472
Cryptosporiopsis abietina
antagonism, *Heterobasidion annosum* 423
spruce 423
Cryptostictis cupressi, nomenclature 4474
Cryptostroma corticale, *Acer pseudoplatanus* 4453
Cuba
Capsicum, Pseudomonas cichorii 1323
Datura candida, Alternaria crassa 923
potatoes, potato leaf roll virus 4413
soyabeans, cowpea mosaic virus 806
sugarcane, ratoon stunting 747
tomatoes, *Alternaria solani* 4441
Cucumber fruit streak virus, cucumbers 3318
Cucumber green mottle mosaic virus
antigens 594
cucumbers 445, 3456
detection 2907
RNA 3462
Cucumber green mottle mosaic virus watermelon str., RNA 4210
Cucumber mosaic virus
Ajuga reptans 3060
antigens 594
asparagus 2179
beans (*Phaseolus*) 459, 798, 4521
Calanthe discolor 3888
Capsicum 1250, 3390, 3737, 4567, 4826, 4827
Chenopodium amaranticolor 4858
Cicer arietinum 2737
Cirsium arvense 4567
cowpeas 3375, 3376
cucumbers 2693, 2695, 3456, 4030
Dahlia 683
Datura metel 4206
Datura stramonium 3188
faba beans 4858
globe artichokes 3727
Heliotropium europaeum 4567
hosts 599, 2923, 3888, 4640
inhibition 2137
Japan 4640
lettuce 5048
lucerne 4709
marrows 5020
melons 595, 1250, 1261, 2691, 3682, 3737, 4793
Nicotiana clevelandii 5020
Nicotiana glauca 4630
Nicotiana glutinosa 4630
Nicotiana plumbaginifolia 3733
peas 4510
Pelargonium 4703
Psophocarpus tetragonolobus 815

Cucumber mosaic virus *contd.*
purification 940
races 3464
rhubarb 517
RNA 1406
Scaevola frutescens 2018
serology 941, 4640
squash 3684
tobacco 380, 754, 1630, 1635, 1843
tomatoes 2143, 3235, 3652, 3737, 3987, 4438
yams 4091
Cucumber pale fruit viroid
characteristics 2902
cucumbers 3794
tomatoes 3794
Cucumber soilborne virus, cucumbers 3685
Cucumber yellows virus, melons 3737
Cucumbers
Arabis mosaic virus
Czechoslovakia 432
light 5021
bacterial diseases
roots 4049
spread 4049
Botrytis cinerea
environmental factors 2199
fungicide tolerance 2199
Israel 2199
Cladosporium cucumerinum, induced resistance 4791
Colletotrichum lagenarium
activity 1691
penetration 1263
cucumber fruit streak virus
characteristics 3318
Greece 3318
cucumber green mottle mosaic virus
control 3456
enzyme activity 445
mineral nutrition 445
cucumber mosaic virus
amino acids 2695
control 3456
cucumber soilborne virus
characteristics 3685
Lebanon 3685
diseases, Korea Republic 4030
Erysiphe cichoracearum
biological control 1265
control 447, 787, 3688
fungicides, uptake 1353
Fusarium
biological control 1265
soil fungistasis 1824
Fusarium oxysporum, activity 1691
Fusarium oxysporum f.sp. *cucumerinum*
control 4046
induced resistance 1691
interactions 4506
Fusarium oxysporum f.sp. *melonis,* activity 1691
Leandria momordica, Florida 3686
Leveillula taurica, Libya 3687
Myrothecium verrucaria, USSR 449
Phomopsis sclerotioides, biological control 2197
Pseudomonas syringae pv. *lachrymans*
control 2671
environmental factors 791
genetics 2200
induced resistance 4791
Japan 791, 2671
varietal reactions 2200, 2702
Pseudoperonospora cubensis, induced resistance 3814
Puccinia trabutii, German Democratic Republic 3327
Pythium ultimum, control 3326
Sphaerotheca fuliginea
biological control 2196
control 447, 2288, 3688
hyperparasitism 789, 2696, 4505
integrated control 2696, 4505
sporulation 2698
squash mosaic virus, Morocco 1690
sunscald 2672
tobacco necrosis virus
activity 1691
enzymes 95
induced resistance 596, 4491, 4791
proteins 1259
Ulocladium chartarum, enzymes 2373
Cucumbers *contd.*
Verticillium dahliae, control 4046
viroids, cytopathic effects 3794
viruses, transmission 2693
Xanthomonas campestris pv. *cucurbitae*
control 792
Trinidad 792
Cucumeropsis edulis
viruses
hosts 3317
Nigeria 3317
Cucumis melo (see Melons)
Cucumis sativus (see Cucumbers)
Cucurbita maxima (see Squash)
Cucurbita pepo (see Marrows)
Cucurbitaceae
Didymella bryoniae
epidemiology 446
Kentucky 446
diseases, induced resistance 2939
Erysiphe cichoracearum, interactions 446
muskmelon yellow stunt virus, nomenclature 5023
Phytophthora drechsleri
Iran 448
susceptibility 448
Sphaerotheca fuliginea, interactions 446
watermelon mosaic virus
Japan 2694
serology 2694
zucchini yellow mosaic virus, nomenclature 5023
Culinary herbs, air pollution, damage 4394
Culture collection catalogues, directories 911
Culture collections, Portugal 2329
Cuman
control, *Phytophthora nicotianae* var. *nicotianae, Elettaria cardamomum* 3930
laboratory tests
Capnodium citri 669
Curvularia eragrostidis 3917
Cuman-L
control, *Setosphaeria rostrata,* tomatoes 2153
laboratory tests, *Setosphaeria rostrata* 2153
Cuminum cyminum, seedborne fungi, India 1596
Cumminsiella
Berberidaceae 2882
taxonomy 2882
Cumminsiella santa, *Berberis spinulosa* 2882
Cunninghamella elegans, rhizosphere, pines 44
Cupravit
control
avocados, storage decay 3589
Pseudocercospora purpurea, avocados 3587
Cupressaceae
fungi, susceptibility 4489
Uredinales
Europe 2667
North America 2667
taxonomy 2667
Cupressocyparis leylandii, *Seiridium cardinale,* susceptibility 4489
Cupressus
Seiridium cardinale
breeding 4782
epidemiology 3672
Israel 3672
Italy 1677, 4782
resistance 4782
seasonal variation 1677
seeds 4487
Cupressus arizonica, *Seiridium cardinale,* susceptibility 4489
Cupressus duprezíana, *Seiridium cardinale,* resistance 4781
Cupressus lusitanica
Monochaetia unicornis
East Africa 4783
susceptibility 4783
Cupressus macrocarpa, *Seiridium cardinale,* susceptibility 4489
Cupressus sempervirens, *Seiridium cardinale,* enzymes 428
Cupressus torulosa
Seiridium cardinale
resistance 4781
susceptibility 4489
Cupric chloride, control, *Glomerella cingulata,* coffee 3529
Cupric hydroxide
control
coffee, diseases 4308
Glomerella cingulata, coffee 1981, 3529
Pseudomonas cichorii, Pelargonium 3543
Pseudomonas syringae pv. *tomato,* tomatoes 392, 4446
Cuprokylt, control, *Erwinia,* potatoes 1186
Cuprosan, control, *Phytophthora infestans,* potatoes 1175
Cuprous oxide
control
Alternaria ricini, Ricinus communis 2578
Glomerella cingulata, coffee 1981, 3529
Hemileia vastatrix, coffee 1979
Koleroga noxius, coffee 3877
Phytophthora palmivora, cocoa 1869
Curcuma longa (see Turmeric)
Curtobacterium, classification 3752
Curvularia
cotton 675
maize 1479
rice 3010, 3031
sorghum 186
sugarcane 4424
Curvularia andropogonis, *Cymbopogon martini* var. *motia* 341
Curvularia eragrostidis
laboratory tests, fungicides 3917
pineapples 2560
Stylosanthes guianensis 4933
yams 4092
Curvularia fallus, rice 1038
Curvularia pallescens
barley 1005
wheat 1436
Curvularia spicata, soil 921
Curzate, activity, Peronosporales 2801
Cuscuta campestris, transmission, grapevines, diseases 3600
Cuscuta chinensis, transmission, *Ipomoea obscura,* witches' broom 1856
Cuscuta reflexa, *Leveillula taurica,* hosts 1767
Cyamophila medicaginis, transmission, lucerne, dwarf 4708
Cyamopsis tetragonoloba
fungicides, yield 5046
Fusarium solani, survival 3379
Graphium penicillioides, enzymes 4077
Cycas circinalis
Botryodiplodia theobromae, India 3065
Fusarium dimerum, India 3065
Cyclobalanopsis, bacteria, freezing 1783
Cycloconium oleaginum, olives 1133, 3154, 3597, 3921
Cycloheximide
activity, *Glomus caledonium* 4607
control
Corticium salmonicolor, rubber 2937
Gymnosporangium haraeanum, Juniperus 3912
Puccinia graminis, wheat 134
Sclerotium rolfsii, turf 1541
laboratory tests, *Phytophthora palmivora* 3815
Cylindrocarpon
apples 263
clover 4929
Erica 1998
lucerne 4710
ornamentals 1998
Cylindrocarpon gracile, lucerne 1089
Cylindrocarpon heteronema, *Platanus* 3271
Cylindrocarpon lucidum, apples 265
Cylindrocladiella, nomenclature 925
Cylindrocladium
forest trees 4010
nomenclature 925
Cylindrocladium clavatum
Eucalyptus 4463
lucerne 258
peas 455

Cylindrocladium crotalariae
groundnuts 1298
soyabeans 3345
Cylindrocladium curvatum, Eucalyptus 768
Cylindrocladium heptaseptatum, Rumohra adiantiformis 687, 2017
Cylindrocladium ilicicola, Eucalyptus 4463
Cylindrocladium parvum, Eucalyptus 768
Cylindrocladium pteridis, Rumohra adiantiformis 687
Cylindrocladium scoparium
Eucalyptus 768
forest trees 395
Cylindrocladium spathiphylli, Spathiphyllum 1077
Cymbidium, viruses, detection 1068
***Cymbidium* mosaic virus**
Cattleya 4700
Cymbidium 1068
orchids 3073
Cymbidium* ringspot virus, *Nicotiana clevelandii 1405
Cymbopogon flexuosus, Rhizoctonia solani, India 1553
Cymbopogon martini* var. *motia
fungi, India 341
fungicidal properties 1946
Cymoxanil
activity, Peronosporales 2801
control
Guignardia bidwellii, grapevines 334
Plasmopara viticola, grapevines 295, 1137, 3601
fungicide tolerance, plant pathogens 3424
laboratory tests, *Botrytis cinerea* 3422
Cynara scolymus (see Globe artichokes)
Cynodon dactylon
stunting, bacterium 3083
white leaf, mycoplasmas 3083
Cyomaxanil, control, *Sclerospora graminicola, Pennisetum typhoides* 1923
Cypendazole, seed treatments, marrows 4504
Cyperus esculentus, Puccinia canaliculata, biological control 2755
Cyphomandra betacea
potato aucuba mosaic virus
mixed infection 1587
New Zealand 1587
symptoms 1587
Pseudomonas solanacearum
interactions 724
virulence 724
tamarillo mosaic virus
mixed infection 1587
New Zealand 1587
symptoms 1587
Cypress (see *Cupressus*)
Cyprofuram
control, *Plasmopara viticola,* grapevines 295
fungicide tolerance, *Pseudoperonospora cubensis* 2699
Cyprus, cereals, *Puccinia* 115
Cytokinins
beans (*Phaseolus*) 458
Nectria radicicola 3291
Cytospora
pines 1674
trees 1652
Cytospora abietis
Abies concolor 3290
Abies magnifica 4475
Cytospora rosarum, roses 1537
Czechoslovakia
barley, diseases 4260
beans (*Phaseolus*), *Pseudomonas syringae* pv. *phaseolicola* 468
cucumbers, *Arabis* mosaic virus 432
flax
diseases 4914
Phoma exigua var. *linicola* 4913
horseradish, *Arabis* mosaic virus 432
lettuce, *Bremia lactucae* 3381, 3721
lucerne, diseases 2534
Puccinia graminis
ecology 4235
taxonomy 4235
rhubarb, *Arabis* mosaic virus 432
shrubs, diseases 1652
trees, diseases 1652
Czechoslovakia *contd.*
wheat
Puccinia graminis 1438
Puccinia recondita 136
2,4-D, activity, groundnuts 814
3,5-D, control, *Streptomyces scabies,* potatoes 2618
2,4-D, *Verticillium* 572
Dacobre 500, control, *Hemileia vastatrix,* coffee 1979
Daconil
control
Albugo candida, radishes 4040
Mycosphaerella, groundnuts 4070
Peronospora parasitica, radishes 4040
Phyllosticta musarum, bananas 4379
Phytophthora nicotianae var. *parasitica, Piper betle* 4962
Puccinia arachidis, groundnuts 4070
radishes, diseases 1254
rubber, diseases 1189
phytotoxicity, sesame 727
Daconil 2787, control, *Phytophthora nicotianae* var. *parasitica, Piper betle* 2066
Dactylis glomerata
boron, nutrition 3891
cocksfoot mild mosaic virus, testing 841
cocksfoot mottle virus
characteristics 2023
Japan 2023
symptoms 2023
testing 841
varietal reactions 2023
cocksfoot streak virus
detection 1548
UK 1548
Puccinia
environmental factors 4345
inoculation 4345
resistance 4345
Puccinia graminis
breeding 2530
genetics 691, 2530
Switzerland 1552
Puccinia striiformis, Switzerland 1552
Rhizoctonia solani, deterioration 4922
Stagonospora arenaria, estimation 3087
Uromyces dactylidis, Switzerland 1552
Dactylium dendroides, mushrooms 1315
Daedalea ambigua, timber 393
Daffodil (see *Narcissus*)
Dahlia
cucumber mosaic virus, diagnosis 683
Dahlia mosaic virus, Taiwan 1064
Erysiphe cichoracearum var. *transvaalensis,* taxonomy, South Africa 4861
***Dahlia* mosaic virus**
Dahlia 1064
DNA 1850
Dalbergia hostilis, Sphaerophragmium longicorne, Nigeria 3281
Dalbergia sissoo, rhizosphere fungi, Madhya Pradesh 4452
Dalbulus maidis
transmission
maize rayado fino virus 1480
Spiroplasma 2437
Daldinia concentrica, antifungal agents, plant pathogens 881
Damping off
Amaranthus 4224
Araucaria 778
beans (*Phaseolus*) 2201, 3418, 4619
bedding plants 107, 108, 3059
beet 2183, 2677, 2678
Brassica 1256
cauliflowers 4041
cereals 2949
Cicer arietinum 1739, 2225
clover 2532, 2533
Coriandrum sativum 1599
cotton 1986, 1991, 3056
cowpeas 2735
crops 1864
eggplants 4619
Eucalyptus 4463
faba beans 2715
groundnuts 1721, 4072, 4619
maize 2445
peas 2201, 3418
pines 1240
Damping off *contd.*
Pseudotsuga menziesii 3299
radishes 2870
rice 3857, 4296
Schefflera actinophylla 3545
soyabeans 1709, 2209
tobacco 1630
tomatoes 1211
Damsons, *Tranzschelia discolor,* hosts 2944
Dandelion latent virus, *Taraxacum officinale* 943
Daphniphyllum macropodum, Cercospora daphniphylli, Japan 584
Dasheen mosaic virus, *Dieffenbachia* 226
Date palms
Alternaria alternata, Saudi Arabia 2078
diseases
Bahrain 1155
United Arab Emirates 1155
Fusarium oxysporum f.sp. *albedinis*
actinomycetes 2767
reviews 1157
varietal reactions 730
lethal yellowing, epidemiology 1156
Mauginiella scaettae
control 2588
Egypt 2588
Xylohypha nigrescens, Saudi Arabia 2078
Datura, viruses, susceptibility 599
Datura candida
Alternaria crassa
control 1152
Cuba 923
hosts 923
Datura innoxia
Agrobacterium tumefaciens, cytokinins 4837
Corynebacterium fascians
amino acids 862
host parasite relationships 862
Datura metel
brome mosaic virus, hosts 977
cucumber mosaic virus
India 4206
symptoms 4206
Datura stramonium
American hop latent virus, indicator plants 2064
bean distortion dwarf virus, hosts 3691
brome mosaic virus, hosts 977
cucumber mosaic virus
alkaloids 3188
host parasite relationships 3188
Euphorbia pulcherrima, viruses, indicator plants 2015
potato virus X
alkaloids 3188
host parasite relationships 3188
tobacco bushy-top virus, infection 3979
tobacco mosaic virus, inhibitors 4858
Verticillium dahliae, survival 1827
Daucus carota (see Carrots)
Dazomet
activity, maize 4650
control, *Plasmodiophora brassicae,* Cruciferae 3681
soil treatments 1527, 3072, 3236, 3245
DCMO (see Carboxin)
DCNA (see Dicloran)
Delan
control
Glomerella cingulata, coffee 1981
mushrooms, diseases 2237
Delan C, control, *Diaporthe citri,* citrus 4691
Delsene Mx 200, control, *Phyllosticta,* cloves 4395
Deltamethrin, activity, *Myzus persicae* 3205
Dendryphion, rye 3843
Denmark
elms, *Ceratocystis ulmi* 404
plant diseases 6
plant protection 4098
seed testing 847
Derosal
control
Botrytis cinerea, strawberries 3137
cucumbers, diseases 4046
Piper nigrum, black berry 1145
strawberries, diseases 3136

Derris elliptica, *Uredo derridicola,* Japan 71
Desmodium, diseases, Colombia 2521
Dettol, control, *Xanthomonas campestris* pv. *citri,* citrus 3527
Deuteromycetes, Spain 919
Deuterophoma tracheiphila
citrus 3043, 4692
lemons 3044, 4693
Dexon
control, *Lilium,* diseases 230
phytotoxicity, *Cicer arietinum* 2225
soil treatments 230
DHT
activity, plant viruses 3618, 3652
control, plant viruses 3795
Di-trapex, soil treatments 3236
Di-trapex CP, soil treatments 3245
Diabrotica undecimpunctata howardii, injury, Cucurbitaceae 446
Diallyl disulphide, soil treatments 826
Dianthus caryophyllus (see Carnations)
Dianthus deltoides, hop latent virus, indicator plants 2064
Diaphorina citri, transmission, citrus greening 664
Diaporthe
Actinidia chinensis 1132
soyabeans 3344
Diaporthe capsici, CMI descriptions 85
Diaporthe citri
citrus 3042, 3047, 3048, 3865
grapefruits 2494
mangoes 1584
satsumas 2491
Diaporthe manihotis, CMI descriptions 85
Diaporthe medusae, walnuts 2659
Diaporthe perniciosa
apples 700
peaches 700
Diaporthe phaseolorum
soyabeans 5035
weeds 5035
Diaporthe phaseolorum* var. *caulivora,
soyabeans 3344
Diaporthe phaseolorum* var. *sojae, soyabeans 481, 491, 1287, 4810
Diaporthe tanakae, pears 710
Diaporthopsis metrosideri, *Metrosideros collina* 3278
Dicarboximide
control, *Botrytis cinerea,* grapevines 302
fungicide tolerance
Botrytis cinerea 871, 3161
osmosis 3759
Dicarboximides
control
Botrytis cinerea
grapevines 323
roses 1076
fungicide tolerance
Botrytis cinerea 318, 319, 320, 322, 324, 870, 2199, 4596
Monilinia fructicola 2042
Monilinia laxa 4938
Dichlofluanid
activity
Botrytis allii 2894
Botrytis cinerea 2894
control
Botrytis cinerea
grapevines 323
raspberries 1119
strawberries 2557, 3582
Fulvia fulva, tomatoes 2638
Phytophthora palmivora, Piper nigrum 3171
Pseudopeziza tracheiphila, grapevines 336, 3925
Pythium 4846
strawberries, diseases 281
Venturia inaequalis, apples 709
fungicide tolerance, plant pathogens 3424
Dichloropropane, soil treatments 3236, 3245, 4508
Dichloropropene, soil treatments 3072, 3236, 3245, 4508
Dichlozoline, control, *Magnaporthe salvinii,* rice 1950
Dicid, soil treatments 4374
Diclobutrazol
activity, clover 4595
Diclobutrazol *contd.*
control, *Erysiphe graminis,* wheat 1443
metabolism 545
Dicloran
activity
faba beans 4596
onions 4596
control
Botrytis cinerea, grapevines 3163
Sclerotinia minor, groundnuts 3373
Sclerotium rolfsii, turf 1541
fungicide tolerance
Botrytis cinerea 2946
Macrophomina phaseolina 1354
Monilinia fructicola 2042
Monilinia laxa 4938
Dictyosperma album, *Xanthomonas campestris* pv. *vasculorum,* hosts 1192
Dictyosporium heptasporum, *Sansevieria trifasciata* 3079
Dicyclidin, control, apricots, diseases 1112
Didymella applanata
CMI descriptions 85
raspberries 278, 1117, 1118, 1579, 2047
Didymella bryoniae
Cucurbitaceae 446
marrows 4504
melons 3682
Didymella exitialis, air spora 11
Didymella ligulicola, *Chrysanthemum* 3063
Didymella lycopersici, tomatoes 1649, 2152, 3994
Didymocladium ternatum, mushrooms 2745
Didymosphaeria arachidicola
CMI descriptions 85
groundnuts 2730, 5041
Didymosphaeria donacina, yams 3732
Dieffenbachia, dasheen mosaic virus, varietal reactions 226
Diehliomyces microsporus, mushrooms 2236
Diethylaminoethanol
damage
beans (*Phaseolus*) 2368
Chrysanthemum 2368
maize 2368
tomatoes 2368
Difolatan
control
Alternaria helianthi, sunflowers 3181
Alternaria solani, tomatoes 1210
avocados, storage decay 3589
Colletotrichum capsici, Capsicum 1751
Elsinoë ampelina, grapevines 4734
Elsinoë fawcettii, citrus 1971
Koleroga noxius, coffee 3877
Monographella albescens, rice 2478
oranges, postharvest decay 205
Phomopsis phyllanthi, Phyllanthus emblica 3152
Phytophthora palmivora, aranda 4701
Piper nigrum, black berry 1145
potatoes, seed tubers, decay 3945
Pseudocercospora purpurea, avocados 3587
radishes, diseases 1254
Septoria chrysanthemella, Chrysanthemum 4324
Septoria lycopersici, tomatoes 1210
weeds, fungi, *Pleurotus sajor-caju* 4082
laboratory tests, *Alternaria porri* 4084
phytotoxicity, sesame 3609
seed treatments
groundnuts 4072
Indian mustard 3313
Lablab purpureus 2743
sesame 3609
tomatoes 3993
Vigna radiata 503
Difolatan 4F, control, *Alternaria solani,* potatoes 1619
Digitalis purpurea, *Spiroplasma citri,* Arizona 102
Digitaria eriantha, *Puccinia digitariae,* urediospores 4339
Dihydrostreptomycin, control, *Xanthomonas campestris* pv. *citri,* oranges 1046
Dimetbenzazol, seed treatments, maize 3155
Dimethoate, control, cotton, phyllody 1985
Dimethyl sulphoxide, control, *Alternaria solani,* potatoes 1619
Dinebra retroflexa, viruses, Queensland 248
Dinocap
activity, apples 4355
control
Alternaria ricini, Ricinus communis 2578
Erysiphe polygoni, peas 1696, 4053
Oidium, Tamarindus indica 1233
Uncinula necator, grapevines 298
Dinoseb
control
beans (*Phaseolus*), diseases 1701
Phomopsis viticola, grapevines 337
Phragmidium rubi-idaei, raspberries 1120
Dioscorea (see Yams)
Dioscorea bulbifera, *Glomerella cingulata,* India 4626
Dioscorea pentaphylla, *Cochliobolus lunatus,* Andhra Pradesh 1766
Diospyros cordifolia, plant extracts, antifungal agents 2282
Diospyros kaki (see Persimmons)
Diphenylamine
control
apples
scald 3123
soft scald 2550
Phytophthora syringae, apples 3563
residues, apples 2030
Diplocarpon rosae, roses 235, 2016, 3078
Diplodia
air spora 4817
date palms 1155
maize 2992
sunflowers 3184
Diplodia maydis, maize 1015, 4885
Diplodia pinea, pines 5004
Diplodina acerina, *Acer pseudoplatanus* 397
Disinfectants, laboratory tests, *Erwinia amylovora* 865
Disulfoton, activity, potatoes, diseases 1617
Ditalimfos
control
Podosphaera leucotricha, apples 268, 4359
Sphaerotheca fuliginea, cucumbers 2696
Dithane Combi, control, strawberries, diseases 3136
Dithane M-22, control, *Botrytis tulipae,* tulips 1078
Dithane M-45
activity
fungi, mustard 2688
tomatoes 2635
control
Albugo candida, radishes 4040
Alternaria cucumerina, cantaloupes 3321
Alternaria helianthi, sunflowers 3181
Alternaria solani, tomatoes 1210
Aspergillus niger, groundnuts 3365
Corynespora cassiicola, papayas 4383
Didymocladium ternatum, mushrooms 2745
faba beans, diseases 4531
groundnuts, diseases 3284
Macrophomina phaseolina, groundnuts 3365
Monilinia, cherries 1578
Monographella albescens, rice 2478
mushrooms, diseases 2237
Mycosphaerella, groundnuts 4070
Peronospora parasitica, radishes 4040
Phoma microspora, groundnuts 3369
Phomopsis phyllanthi, Phyllanthus emblica 3152
Phyllosticta, cloves 4395
Phytophthora infestans
potatoes 3949
tomatoes 1213
Pleiochaeta setosa, lupins 1090
Puccinia, sugarcane 2625
Puccinia arachidis, groundnuts 494, 4070
Puccinia helianthi, sunflowers 1149, 3182

Dithane M-45 *contd.*
control *contd.*
radishes
diseases 1254
seedborne fungi 4040
Septoria lycopersici, tomatoes 1210
sesame, diseases 3178
Xanthomonas campestris pv. *vesicatoria*, *Capsicum* 1752
laboratory tests
Pseudomonas syringae 1347
Sclerotium rolfsii 4084
Valsa cincta 1347
phytotoxicity, sesame 727
seed treatments
groundnuts 2938
jute 2504
sesame 2938
sunflowers 2938
Vigna radiata 503
Zinnia 237
Dithane Z-78
activity, rhizosphere fungi 817
control
Cicer, storage decay 5045
Septoria lycopersici, tomatoes 1210
laboratory tests, *Capnodium citri* 669
phytotoxicity, sesame 3609
seed treatments
sesame 3609
sorghum 1919
Dithianon
control
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278
Diaporthe citri, citrus 4691
Glomerella cingulata, coffee 1981
mushrooms, diseases 2237
Venturia inaequalis, apples 709
Dithiocarbamates
control
Leptosphaeria coniothyrium, roses 1074
Pleiochaeta setosa, lupins 1090
Pseudopeziza tracheiphila, grapevines 336, 3925
Ditylenchus dipsaci, diseases, lucerne 693
DMSO, control, *Alternaria solani*, potatoes 1619
DNOC
control
Blumeriella jaapii, cherries 3574
Peronospora sparsa, roses 1073
Dodemorph, activity, fungi 3421
Dodine
activity
apples 4356
soil fungi 1826
control
Venturia inaequalis, apples 3109
Venturia pirina, pears 3566
fungicide tolerance, *Venturia inaequalis* 961
***Dolichos* enation mosaic virus**, interactions 601
***Dolichos* enation virus**, *Lablab purpureus* 1305
Domiphen, control, *Corynebacterium michiganense* pv. *sepedonicum*, potatoes 4758
Dothiorella aromatica, avocados 1127, 3588, 4945
Dowco M 4408, control, *Phytophthora palmivora*, *Piper nigrum* 3171
Dowco 444
control
Phytophthora cinnamomi, avocados 4950
Phytophthora palmivora, cocoa 2948
seed treatments, soyabeans 4065
DPX 3217, laboratory tests, plant pathogens 4599
DPX-4891, activity, potatoes, ozone, damage 3217
Dracaena marginata, *Gibberella fujikuroi*, irrigation 218
Drechslera
air spora 4817
barley 1871
Lolium 1079, 4341, 4342
Lolium perenne 2525
taxonomy 4627
Drechslera andersenii, *Lolium* 4341
Drechslera bicolor, sorghum 4281
Drechslera coicis, *Coix lachryma-jobi* 2452, 2453, 2454
Drechslera gigantea
hosts 249
Zizania aquatica 249
Drechslera halodes, maize 174
Drechslera heveae, rubber 2128
Drechslera hongkongensis, *Lepidagathis hyalina* 3785
Drechslera iridis, *Sansevieria trifasciata* 3079
Drechslera neergaardi, sesame 1147
Drechslera nobleae, *Lolium* 4341
Drechslera poae, *Poa pratensis* 246
Drechslera sacchari
mycotoxins 2318
sugarcane 743, 1629, 3970, 4177
toxins 4173
Drechslera siccans
Lolium 4341
Lolium multiflorum 4921
Drechslera stenospila, sugarcane 740
Drechslera tetramera, physiology 4280
Drepanopeziza sphaeroides, *Salix* 2646
Drought tolerance, pines 418
Dryandra sessilis
Phytophthora cinnamomi
forests 4997
Western Australia 4997
Du-ter, laboratory tests, *Cladosporium allii-cepae* 1317
Du-ter extra, control, *Hemileia vastatrix*, coffee 1979
Duchesnea indica, *Frommea obtusa* var. *duchesneae*, control 3066
Duranta repens, *Leveillula taurica*, hosts 1767
Dyrene, control, *Glomerella cingulata*, coffee 1981
East Africa
cassava
Xanthomonas campestris pv. *cassavae* 1761
Xanthomonas campestris pv. *manihotis* 1761
Cupressus lusitanica, *Monochaetia unicornis* 4783
Echinochloa colona
mycoplasmas 1026
Rhizoctonia solani, infection 1961
Sarocladium oryzae
Bangladesh 1958
hosts 1958
Echlomezol (see Etridiazole)
Eclipta alba, *Alternaria alternata*, India 2585
Economics of control
barley, diseases 1001
citrus tristeza virus, citrus 4301
diseases
crops 1925
rice 1925
Erysiphe polygoni, *Vigna radiata* 2226
Phytophthora infestans, potatoes 3210
Tilletia controversa, wheat 626
Ecuador, cocoa, *Crinipellis perniciosa* 1422
Edifenphos
control
Corticium sasakii, rice 2475
Fusarium solani f.sp. *pisi*, peas 1694
Magnaporthe salvinii, rice 1950
EDPP (see Edifenphos)
EDTA, inhibition, viruses 93
EDU, activity, potatoes, ozone, damage 3217
Efosite aluminium, soil treatments 1515
Eggplants
brown root rot, Greece 3236
Calyptella campanula, infection 2641
diseases, Reunion 3405
little leaf
aetiology 1754
mycoplasmas 1754, 3395
Phomopsis vexans, control 3396
Phytophthora, ultrastructure 1411
Phytophthora nicotianae, enzymes 4575
Phytophthora nicotianae var. *parasitica*, physiology 4609
Pseudomonas solanacearum
indicator plants 3985
resistance 2643
Eggplants *contd.*
Pseudomonas solanacearum var. *asiaticum*, survival 1758
Rhizopus nodosus, enzymes 4575
soil fungi
biological control 4619
control 3784
Sphaerotheca lanestris, India 1757
tobacco bushy-top virus, infection 3979
tobacco mosaic virus
identification 2910
strains 2908
Verticillium albo-atrum, susceptibility 968
Verticillium dahliae
biological control 1756
control 2247
toxins 2794
varietal reactions 1755, 5062
viruses
characteristics 833
Greece 4574
identification 4574
India 521
symptoms 4574
Egypt
bananas, *Cochliobolus spicifer* 4724
barley, *Pyrenophora teres* 2430
carnations, fungi 3062
clover, diseases 2532, 2533
date palms, *Mauginiella scaettae* 2588
faba beans, diseases 4531
lucerne, diseases 3549, 4348
olives, *Cycloconium oleaginum* 1133
onions, *Sclerotium cepivorum* 2241
oranges, *Penicillium* 4306
Ricinus communis, *Alternaria ricini* 2578
soyabeans, *Pseudomonas syringae* pv. *glycinea* 1292
sugarcane
maize streak virus 1194
sugarcane mosaic virus 1194
sunflowers
Macrophomina phaseolina 1148
Puccinia helianthi 1149
Eichhornia crassipes
Aquathanatephorus pendulus, Louisiana 528
biological control, conferences 4579
Myrothecium roridum, biological control 2253
El-291, control, *Pyricularia oryzae*, rice 4903
Elaeis guineensis (see Oil palms)
Elaphomyces persoonii, *Vaccinium*, mycorrhizas 2308
Elderberry latent virus, identification 969
Electron microscopy 1058
Aspergillus terreus, *Corticium rolfsii* 9
bean yellow mosaic virus, beans (*Phaseolus*) 2709
Botrytis cinerea 1835
broad bean wilt virus, cowpeas 2731
carnation yellow stripe virus, carnations 4697
Cenococcum geophilum, *Tilia cordata* 886
Choanephora cucurbitarum 926
Cladosporium caryigenum, pecans 3665
cowpea mosaic virus, beans (*Phaseolus*) 2709
cowpea severe mosaic virus, beans (*Phaseolus*) 2709
Cronartium flaccidum 2336
Cronartium fusiforme
oak 771, 2647
pines 2647, 3297
Cryphonectria parasitica 2651
cucumber mosaic virus, tobacco 380
dasheen mosaic virus, *Dieffenbachia* 226
Erica carnea, mycorrhizas 2837
Fagus, mycorrhizas 550
Fusarium oxysporum f.sp. *pisi*, peas 2943
Glomus fasciculatus, grapevines 895
Graphiola phoenicis, *Phoenix canariensis* 3200
Lentinus edodes, viruses 947
Melampsora populnea, pines 2665
mulberries, curly little leaf 4375
mycorrhizas 2811

Electron microscopy *contd.*
oat sterile dwarf virus, *Lolium multiflorum* 1081
Pelargonium vein clearing virus, *Pelargonium* 4702
Periconia circinata, sorghum 4282, 4283
Phytomonas staheli
coconuts 345
oil palms 345
Phytophthora cinnamomi, grapevines 3603
Pisolithus tinctorius, pines 3765
Plasmodiophora brassicae 4162
Chinese cabbages 2680
turnips 2680
Polymyxa graminis 2331
Pseudomonas solanacearum, tomatoes 2154
Pterospora andromedea, mycorrhizas 897
Puccinia digitariae, Digitaria eriantha 4339
Rhododendron, mycorrhizas 899
rice ragged stunt virus, rice 192
ryegrass cryptic virus, *Lolium multiflorum* 1081
Sarcodes sanguinea, mycorrhizas 897
shallots, viruses 511
Synchytrium endobioticum, potatoes 1176
Tilletia 2315
Tilletia caries 2898
Tilletia indica 2899
wheat 3828
tobacco rosette 1203
tomato black ring virus 3227
tomato spotted wilt virus 2921
tulip virus X 1058
Ustilago avenae 1397
Ustilago esculenta, Zizania latifolia 2249
wheat spindle streak mosaic virus, wheat 124
Elettaria cardamomum
diseases, India 4393
katte, India 4833
mycorrhizas, India 57
Phaeodactylium venkatesanum, control 3931
Phytophthora nicotianae var. *nicotianae,* control 3930
Eleusine coracana
Glomus fasciculatum
interactions 563
mycorrhizas 563
Magnaporthe grisea, inoculation 2457
Pyricularia, mating 1944
Pyricularia oryzae 3026
inoculation 2457
seedborne fungi, control 3514
Streptomyces cinnamomeous, interactions 563
Elm mottle virus, serological relationships 1846
Elms
bacteria, gases 2162
bark, cracks 2652
Botryodiplodia hypodermia, virulence 2161

Ceratocystis ulmi
antagonists 4457
Belgium 3261, 3262, 3263
biological control 4014, 4457, 4996
California 766, 3662
chlamydospores 4460
control 401, 402, 2652, 3264, 4459
Denmark 404
environmental factors 404, 4456
enzymes 4777
France 4014
history 3263
lipids 4461
losses 4459
mycotoxins 403
physiology 767
proteins 4776
resistance 3662
reviews 1222, 3661
sporulation 4456
strains 3262, 4776, 4777
susceptibility 3261
symptoms 1224

Elms *contd.*
Ceratocystis ulmi contd.
transmission 404, 4458
Yugoslavia 4459
Microsphaera, taxonomy 2339
Phellinus punctatus, Greece 762
phloem necrosis, stomatal resistance 3468
Pseudomonas syringae, antagonism 4457
Elosal, control, *Erysiphe polygoni,* peas 1696
Elsinoë
Euphorbiaceae 3398
taxonomy 3398
Elsinoë ampelina
fungicide tolerance 1350
grapevines 2058, 4734
Elsinoë batatas, sweet potatoes 837
Elsinoë brasiliensis
cassava 4577
nomenclature 3398
Elsinoë fawcettii, citrus 1971
Elytrichia repens, Rhizoctonia solani, Netherlands 1177
Embellisia, reviews 4628
Emex australis, Uromyces rumicis, biological control 839
Endives, spring yellows virus, Florida 2181
Endocronartium harknessii, pines 4479
Endogonaceae
clover 3769
mycorrhizas 1366
keys 553
Endogone, radishes, mycorrhizas 4605
Endogone incrassata, spore germination 1367
Endogone pisiformis
leeks, mycorrhizas 2829
onions, mycorrhizas 2829
spore germination 3776
Endophragmiella constricta, hyperparasitism, *Sclerotinia minor* 924
Endosulfan, control, ryegrass mosaic virus 2525
Entoloma sericeum
enzymes 1811
Salix rotundifolia, mycorrhizas 1811
Entorrhiza casparyana, Juncus articulatus 2332
Entrophospora infrequens, grasses, mycorrhizas 2294
Entyloma vignae
cowpeas 2219, 2221
spore germination 2219
Epicoccum, air spora 4817
Epicoccum purpurascens
antagonism, *Botrytis fabae* 2718
barley 3833
faba beans 2718
larch 1219
rice 2461
Erica, Cylindrocarpon, pathogenicity 1998
Erica carnea, mycorrhizas 2837
Erica ciliaris, mycorrhizas, inoculation 3440
Erica cinerea, mycorrhizas, inoculation 3440
Erica* × *darleyensis, mycorrhizas, inoculation 3440
Erica vagans, mycorrhizas 2837
Ericaceae, *Monilinia,* biology 3133
Ericales, mycorrhizas, reviews 2838
Eriobotrya japonica (see Loquats)
Eriocercospora websteri, Kydia 2342
Eriophyes tulipae, transmission, wheat streak mosaic virus 1084
Erwinia
beet 438
caraway 3187
control, *Phytophthora cactorum,* apples 2546
freezing 1783
fruit 3094
polyamines 19
potatoes 864, 1158, 1186, 1621, 3944
Erwinia amylovora
apples 1566, 3552, 4713, 4936
biochemistry 16
Cotoneaster dammeri 1063
Crataegus 3552
forecasting 1344, 2271
fruit trees 698
hydroquinones 4838

Erwinia amylovora *contd.*
laboratory tests, disinfectants 865
legislation 4602
pears 1566, 2271, 3552, 3567, 4713
polysaccharides 4936
pome fruits 701, 1095
Pyrus calleryana 1106
raspberries 3135
Erwinia carotovora
enzymes 539
genetics 4590
laboratory tests, phytoalexins 4545
potatoes 1160, 3214, 4096
tomatoes 1343
Erwinia carotovora* ssp. *atroseptica
cabbages 4043
genetics 858
identification 2785
potatoes 731, 864, 955, 1159, 1161, 1184, 1185, 1186, 1187, 1612, 1624, 2081, 2118, 2119, 2121, 2592, 2620, 3213, 3612, 3638, 3937, 4411, 4422, 4747, 4967, 4979, 4980, 4981
survival 858
virulence 1343
Erwinia carotovora* ssp. *carotovora
bacteriophages 20, 4121
beans (*Phaseolus*) 1705
biochemistry 16
cabbages 4043
Chinese cabbages 785, 2671
cucumbers 4049
genetics 858
identification 2785
lettuce 5050
lupins 4711
potatoes 731, 1159, 1183, 1621, 1622, 1624, 2079, 2118, 2119, 2120, 2620, 3639, 3937, 4411, 4422, 4967
survival 858
swedes 955
turnips 955
virulence 1343
Erwinia chrysanthemi
enzymes 21, 540
identification 2785
induced mutations 1789
maize 177, 1491
Philodendron selloum 233
physiology 3753
potatoes 845, 1624, 2623, 2624
Solanum tuberosum ssp. *andigena* 2623
Erwinia chrysanthemi* pv. *chrysanthemi
enzymes 863
genetics 4591
rice 1966
Erwinia herbicola, physiology 1336
Erwinia salicis
Salix 3276
Salix alba 1230
Erwinia stewartii
cucumbers 4049
maize 1490, 3511
Erwinia toxica, virulence 1343
Erwinia tracheiphila, melons 450
Erysiphales
greenhouse crops 3473
hosts 2881
Japan 2881
taxonomy 80, 3451
trees 4011
Erysiphe
hosts 79
lucerne 4348
taxonomy 79
Erysiphe acaciae, Ziziphus 4626
Erysiphe betae, beet 1, 2371, 3307, 3309, 4496
Erysiphe cichoracearum
beans (*Phaseolus*) 4805
Begonia 219
cucumbers 447, 787, 1265, 3688
Cucurbitaceae 446
marrows 3737
melons 788, 2700, 3682
Nicotiana 4767
Nicotiana glutinosa 4768, 4989
sesame 3176, 3178
squash 4507
tobacco 1202, 1204, 3976, 3980, 3981, 4767, 4768, 4989
Zinnia 2020

***Erysiphe cichoracearum* f.sp. *phlogis*, Phlox** 1071
***Erysiphe cichoracearum* var. *poonaensis*,** nomenclature 2339
Erysiphe cichoracearum* var. *transvaalensis
Dahlia 4861
Zinnia 4861
Erysiphe cruciferarum
Brassica 1
Cruciferae 1682
swedes 1255
Erysiphe graminis
activity
DPX 3217 4599
mancozeb 4599
barley 150, 151, 158, 159, 160, 637, 638, 639, 640, 841, 960, 979, 982, 984, 1001, 1003, 1004, 1423, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1857, 1899, 1902, 1903, 2381, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2983, 2984, 2985, 3479, 3501, 3502, 3832, 3839, 3840, 3841, 4228, 4230, 4257, 4264, 4265, 4266, 4650, 4667, 4866, 4880
beet 1251
cereals 1, 878, 1877, 2285, 2387, 2954, 3478, 3819
Lolium multiflorum 4707
oats 1326
polypeptides 1444
rye 953, 1008
spores, counting 2343
triticale 617
wheat 118, 140, 619, 620, 627, 953, 984, 990, 999, 1443, 1444, 1878, 1892, 2381, 2391, 2408, 2409, 2420, 2971, 4097, 4241, 4251, 4656, 4658, 4659, 4661, 4662
***Erysiphe heraclei*,** carrots 3315
Erysiphe pisi
peas 1269, 3329, 4509
Sesbania punicea 4861
Erysiphe polygoni
beans (*Phaseolus*) 4054
cowpeas 3709
faba beans 4532
lupins 4932
peas 1696, 1697, 1699, 4053, 4513, 4802
swedes 2686
Vigna radiata 2226
Erysiphe ranunculi*, *Anemone 1999
Erysiphe trifolii*, *Securigera securidaca 2252
***Erysiphe umbelliferarum*,** parsley 1601
Etaconazole
activity, *Ustilago maydis* 4132
control
avocados, storage decay 1127
Botryodiplodia theobromae, grapefruits 2494
Diaporthe citri, grapefruits 2494
Erysiphales, greenhouse crops 3473
mangoes, postharvest decay 1584
Penicillium expansum, apples 271
Tilletia controversa, wheat 2970
Ustilago scitaminea, sugarcane 3641
phytotoxicity, barley 4879
seed treatments, barley 4879
uptake, apples 1100
volatility 1100
Ethazol (see Etridiazole)
Ethephon, tobacco mosaic virus, tobacco 3223
Ethidium bromide, activity, *Glomus caledonium* 4607
Ethion, control, *Gibberella fujikuroi* var. *subglutinans*, pineapples 3149
Ethirimol
activity, barley 3832
fungicide tolerance, *Erysiphe graminis* 4265
seed treatments, barley 150, 151
Ethoprophos, soil treatments 3236
Ethoxyquin, residues, apples 1097
Ethrel, activity, oranges, storage decay 4909
Ethylene
activity
melons 1267
oranges 4307
Geotrichum candidum
citrus 4910
Ethylene *contd.*
Geotrichum candidum contd.
lemons 1975
oranges 1042
Penicillium digitatum, citrus 4910
Rhizopus stolonifer, tomatoes 4992
tobacco, viruses 4985, 4986
Ethylene bisdithiocarbamate
control
Albugo occidentalis, spinach 3678
Peronospora farinosa, spinach 3678
Ethylene dibromide
seed treatments
rice 3818
wheat 3818
Ethylenediurea
control
ozone
damage
crops 1414
Petunia 1535
trees 1653
Ethylmercury acetate
laboratory tests
Fusarium solani 504
Rhizoctonia solani 504
Sclerotium rolfsii 504
seed treatments, wheat 2979
Ethylmercury chloride
control, wheat, root rots 989
seed treatments
beans (*Phaseolus*) 4804
Lablab purpureus 2743
Etridiazole
control
clover, diseases 2533
Phytophthora cinnamomi, avocados 4950, 4951
Phytophthora nicotianae var. *parasitica*, oranges 3045
Phytophthora palmivora
aranda 4701
cocoa 2948
Pythium splendens, *Schefflera actinophylla* 3545
fungicide tolerance, plant pathogens 3424
Eucalyptus
Alternaria alternata, India 4778
Armillaria, electrical resistance 3266
Cladosporium herbarum, India 4778
Cryphonectria cubensis
host parasite relationships 2653
phenols 2653
Cylindrocladium, India 768
decay, electrical resistance 2176, 2177
dieback
aetiology 3663
Australia 3663
fungi, Victoria 2164
mycorrhizas, New Zealand 549
Phytophthora, ultrastructure 1411
Phytophthora cinnamomi
epidemiology 4462
histopathology 4462
infection 4462
respiration 3265
sources 4997
symptoms 769
Victoria 769
Western Australia 4997
seedborne fungi, India 2654
***Eucalyptus camaldulensis*, *Botryosphaeria ribis*,** Florida 2163
***Eucalyptus delegatensis*,** decay fungi, pruning 4464
***Eucalyptus goniocalyx*, *Phytophthora cinnamomi*,** water relations 394
Eucalyptus grandis
diseases, Kerala 4463
root rots, Zimbabwe 2362
***Eucalyptus macrorhyncha*, *Phytophthora cinnamomi*,** water relations 394
Eucalyptus marginata
mycorrhizas, calcium oxalate 888
Phytophthora cinnamomi
antagonists 4848
Australia 1657
root distribution 1657
***Eucalyptus nitens*, *Septoria pulcherrima*,** New Zealand 4465
Eucalyptus obliqua
Armillaria
Australia 396
morphology 396
Armillaria luteobubalina
Australia 396
morphology 396
***Eucalyptus regnans*, *Trimmatostroma bifarium*,** New Zealand 4465
***Eucalyptus tereticornis*,** diseases, Kerala 4463
***Euchlaena mexicana*, *Sclerospora graminicola*,** susceptibility 1020
***Eudarluca caricis*,** hyperparasitism, *Uromyces acori* 344
Euparen
control
Botrytis cinerea, strawberries 2557
Phytophthora palmivora, *Piper nigrum* 3171
Pythium 4846
***Eupatorium capillifolium*,** fungicidal properties 1946
***Eupatorium odoratum*,** mycorrhizas, environmental factors 4843, 4844
***Eupenicillium*,** taxonomy 2891
Euphorbia brasiliensis
Elsinoë, South America 3398
Sphaceloma, South America 3398
***Euphorbia geniculata*, *Macrophomina phaseolina*,** India 1420
Euphorbia heterophylla
Elsinoë, South America 3398
Sphaceloma, South America 3398
***Euphorbia lactea*, *Macrophomina phaseolina*,** India 3067
***Euphorbia lasiocarpa*, *Phytomonas*,** histopathology 2364
***Euphorbia loricata*,** ring spot virus, Denmark 6
Euphorbia pulcherrima
Botrytis cinerea, environmental factors 219
cryptic virus, Denmark 6
Elsinoë, South America 3398
mosaic virus, Denmark 6
poinsettia cryptic virus, elimination 1531
poinsettia mosaic virus
Canada 3539
elimination 1531
Sphaceloma, South America 3398
sulphur dioxide, varietal reactions 2516
viruses
control 2015
Italy 2015
symptoms 2015
transmission 2015
Europe
barley, *Erysiphe graminis* 1465
Cupressaceae, Uredinales 2667
Gramineae, viruses 1329
oats, *Puccinia coronata* 1906
plant diseases
integrated control 2931
legislation 1805, 2807, 4135
Rosaceae, *Peronospora* 3446
seed pathology 4218
Euscelidius variegatus
transmission
Spiroplasma citri 2520
western X disease 1107
Eutypa armeniacae
almonds 2555, 4863
grapevines 1141, 4388, 4390, 4960
pears 4863
Prunus salicina 4863
Viburnum opulus 4863
Exobasidium giganteum*, *Camellia japonica 224
***Exobasidium vexans*,** tea 749, 1200, 2626
EXP 1861, control, *Botrytis cinerea*, grapevines 308
***Exserohilum*,** taxonomy 4627
Faba beans
Ascochyta fabae
spread 3701
UK 3701
varietal reactions 3338
bacteria, interactions 1283
bean yellow mosaic virus
Australia 5031
variations 5031

Faba beans *contd.*
Botrytis cinerea
interactions 1283
iron 472, 1858
pathogenicity 2714
phytoalexins 1858
Botrytis fabae
infection 2718
interactions 1283
Poland 2718
resistance 4534
statistical analysis 473
survival 4059
Syria 4534
testing 3700
yield losses 2718
broad bean stain virus, Italy 471
conferences 4530
cucumber mosaic virus
hosts 3888
inhibitors 4858
diseases
control 4531
Egypt 4531
environmental factors 4536
Sudan 4532
UK 1419, 4808
Fusarium oxysporum
interactions 1270
phytoalexins 1708
resistance 1708
Fusarium solani
antagonists 2716, 2717
control 2715
Glomus mosseae
mycorrhizas
biomass 4154
root nodules 4152
pea streak virus, transmission 3089
Pelargonium line pattern virus, cytoplasmic inclusions 1533
Rhizoctonia solani
antagonists 2716, 2717
control 2715
Sclerotium rolfsii
antagonists 2716, 2717
control 2715
spinach, viruses, hosts 2679
tobacco streak virus, hosts 1402
Uromyces viciae-fabae
genetics 2207
host parasite relationships 1282
microscopy 4201
viruses
interactions 4058
Middle East 4533
review 4533
symptoms 4058
Fagopyrum esculentum (see Buckwheat)
Fagus
air pollution, photosynthsis 3257
fungi, bark 764
microorganisms, wounds, control 4013
mycorrhizas
fertilizers 2822
granules 550
mineral content 3770
Nectria galligena
insects 763
West Virginia 763
Falcourtia indica, Pseudocercospora dovyalidis, India 4625
Falisan-Universal 69, seed treatments, onions 4561
Falkland Islands, mycorrhizas 4146
Farfugium japonicum, cucumber mosaic virus, Japan 4640
Fatshedera lizei
Fusarium oxysporum f.sp. *fatshederae*
control 3068
Italy 3068
Fenaminosulf
control
Lilium, diseases 230
Phytophthora nicotianae var. *nicotianae, Elettaria cardamomum* 3930
fungicide tolerance, plant pathogens 3424
phytotoxicity, *Cicer arietinum* 2225
soil treatments 230
Fenapanil
activity 544

Fenapanil *contd.*
control
Cochliobolus, Zizania aquatica 652
Sphaerotheca pannosa, roses 234
phytotoxicity, barley 4879
seed treatments, barley 4879
uptake, apples 1100
volatility 1100
Fenapronil, seed treatments, barley 164
Fenarimol
activity
grapevines 4959
Ustilago maydis 4132
control
cucumbers, diseases 3688
Fulvia fulva, tomatoes 2638, 3242
Guignardia bidwellii, grapevines 334, 335
Monilinia, cherries 1578
Oidium begoniae, Begonia 223
Podosphaera leucotricha, apples 1104
Sphaerotheca pannosa, roses 234
Uncinula necator, grapevines 1592, 1593, 4959
Venturia pirina, pears 3566
fungicide tolerance
fungi 3761
Penicillium italicum 670, 3049
laboratory tests, *Leptosphaeria coniothyrium* 1120
uptake, barley 1353
Fenfuram, seed treatments, barley 1904
Fennel (see *Foeniculum vulgare*)
Fenpropidin, activity, fungi 3421
Fenpropimorph
activity
apples 3117
fungi 3421
potatoes 3636
control
Coriolus versicolor, apples 3117
Melampsora amygdalinae, Salix triandra 1229
Penicillium italicum, oranges 3049
Phoma exigua var. *foveata,* potatoes 3636
Puccinia coronata, oats 1476
Puccinia porri, leeks 5054
Pyrenophora teres, barley 3503
seed treatments, *Brassica* 5012
Fentin acetate
activity, tomatoes 2635
control
Capsicum, diseases 3394
Elsinoë batatas, sweet potatoes 837
fungicide tolerance
Fusarium oxysporum f.sp. *lycopersici* 1350
plant pathogens 3424
laboratory tests, *Cladosporium allii-cepae* 1317
Fentin chloride, control, *Phytophthora infestans,* potatoes 3949
Fentin hydroxide
control
Colletotrichum lindemuthianum, beans (*Phaseolus*) 4522
Hemileia vastatrix, coffee 1979
Puccinia arachidis, groundnuts 3368
laboratory tests, *Cladosporium allii-cepae* 1317
Ferbam, control, *Rhabdocline pseudotsugae, Pseudotsuga menziesii* 776
Ferns, mycorrhizas, Ontario 1373
Fertilizers
bean common mosaic virus, *Vigna radiata* 4075
Botrytis cinerea, grapevines 328
Cochliobolus heterostrophus, maize 1487
diseases
Capsicum 4572
Lolium multiflorum 4707
lucerne 2534
melons 1268
peas 1271
potatoes 1159, 4747
rice 1032, 3012
rubber 2128
wheat 996, 999, 1878, 2392
empty spikes, wheat 985
Erwinia, cabbages 4043
Erwinia carotovora ssp. *carotovora,* beans (*Phaseolus*) 1705

Fertilizers *contd.*
Erwinia chrysanthemi
maize 1491
Philodendron selloum 233
Erysiphe graminis, barley 150, 1004
Fusarium, watermelons 1262
Fusarium oxysporum f.sp. *lycopersici,* tomatoes 1212
Fusarium oxysporum f.sp. *niveum,* watermelons 1264
Gaeumannomyces graminis, wheat 3490
Ganoderma lucidum, coconuts 3194
Gerlachia oryzae, rice 200
Gibberella fujikuroi var. *subglutinans,* pines 421
Glomus mosseae, maize 893
Leptosphaeria maculans, rape 2186
Monographella albescens, rice 1959
mycorrhizas
Ageratum houstonianum 1368
Agropyron trachycaulum 894
Capsicum 1368, 4843
Eupatorium odoratum 4843, 4844
Fagus 2822
Juniperus chinensis 2299
lettuce 2824
pines 1363, 1365
Vaccinium corymbosum 1372
ozone
clover 2522
Festuca arundinacea 2522
soyabeans 3351
pencil point wilt, coconuts 3199
Phytophthora cinnamomi, Persea indica 2050
Phytophthora infestans, potatoes 2605
Phytophthora nicotianae var. *parasitica,* tomatoes 4444
Plasmodiophora brassicae
Chinese cabbages 2187
swedes 1686
Puccinia hordei, barley 150
Pyricularia oryzae, rice 2474
Rhynchosporium secalis, barley 3504
root rots, wheat 988
ryegrass mosaic virus, *Lolium* 238
Sarocladium oryzae, rice 3523
Sclerotinia sclerotiorum, Papaver somniferum 2577
Sporobolomyces roseus, wheat 2414
sugarcane, diseases 3970
Thanjavur wilt, coconuts 3194
Ustilago maydis, maize 2440
viruses, apples 1098, 2031
Xanthomonas campestris pv. *cassavae,* cassava 1760
Xanthomonas campestris pv. *oryzae,* rice 2484, 3861
yellow berry, wheat 148
Festuca arundinacea
Acremonium, taxonomy 81
brome mosaic virus, UK 2528
Gibberella gordonia, Missouri 243
ozone
fertilizers 2522
genetics 4340
resistance 4340
Puccinia coronata
genetics 244
testing 244
Festuca pratensis
fungi, Hokkaido 2524
Xanthomonas campestris pv. *graminis,* Belgium 690
Fieberiella florii, transmission, western X disease 1107
Figs
bacteria, freezing 1783
Choanephora cucurbitarum, India 3919
Filobasidium capsuligenum, classification 1395
Filobasidium floriforme, classification 1395
Finland
beet, damping off 2183
Betula
Fusarium avenaceum 4454
Godronia multispora 4454
raspberries, diseases 1579
sunflowers, fungi 2582
Flagellates, palms 2072
Flavobacterium, antagonism, *Venturia inaequalis* 3110

Flavonoids
laboratory tests
Botrytis cinerea 35
Cladosporium herbarum 35
Flax
Agrobacterium tumefaciens, DNA 4118
diseases
Argentina 4316
varietal reactions 4316
Fusarium, soil fungistasis 1824
Fusarium avenaceum
Czechoslovakia 4914
genetics 4916
inoculation 4914
Fusarium oxysporum f.sp. *lini*
control 110, 4865
environmental factors 2502
soil amendments 4865
soil conditions 110
Melampsora lini, spore germination 2503
Phoma exigua var. *linicola*
breeding 4915
control 4913
Czechoslovakia 4913, 4914
inoculation 4914
pathogenicity 4864
varietal reactions 4915
Florida
Brassaia actinophylla
Alternaria 2019
Alternaria panax 3074
Chrysanthemum, *Pseudomonas cichorii* 3538
citrus
blight 2492
Elsinoë fawcettii 1971
cucumbers, *Leandria momordica* 3686
endives, spring yellows virus 2181
Eucalyptus camaldulensis, *Botryosphaeria ribis* 2163
Gladiolus, bean yellow mosaic virus 3886
grapevines, diseases 2058
lettuce, spring yellows virus 2181
onions, *Sclerotinia squamosa* 2240
palms
Cochliobolus setariae 346
lethal yellowing 1156
Phaeotrichoconis crotalariae 346
Setosphaeria rostrata 346
papayas, viruses 2053, 3595
pigeon peas
mycoplasmas 3712
viruses 3712
Polyscias fruticosa, *Alternaria panax* 3074
potatoes, tobacco rattle virus 3207
Psophocarpus tetragonolobus, cucumber mosaic virus 815
Scaevola frutescens, cucumber mosaic virus 2018
Schefflera arboricola
Alternaria 2019
Alternaria panax 3074
Spathiphyllum, *Cylindrocladium spathiphylli* 1077
strawberries, *Verticillium albo-atrum* 280
tomatoes
Pseudomonas corrugata 3656
storage disorders 2159
Vaccinium, *Elaphomyces persoonii*, mycorrhizas 2308
Flower bulbs, diseases, Netherlands 3057
Flowering plants, viruses, books 591
Flowers, *Spiroplasma*, nutrition 1410
Fluoride
activity, grapevines 4392
damage
apples 3565
Chamaedorea seifrizii 2075
Chrysalidocarpus lutescens 2075
Fluorine
activity, radishes 4500
damage
Abies alba 1666
peaches 1575
resistance, spruce 3302
tolerance
shrubs 3657
trees 3657
Fodder crops, diseases, protection 3469
Foeniculum vulgare, seedborne fungi, India 1596
Folcidin, seed treatments, marrows 4504
Folpel (see Folpet)
Folpet
control
Botrytis cinerea
grapevines 312
tomatoes 1646
grapevines, diseases 2058
Guignardia bidwellii, grapevines 334
Phytophthora cactorum, strawberries 3915
Plasmopara viticola, grapevines 1138
Pseudopeziza tracheiphila, grapevines 336, 3925
Pyrenochaeta lycopersici, tomatoes 3245
strawberries, diseases 3136
yams, diseases 3732
Fomes fomentarius, *Betula pubescens* 3258
Fomitopsis pinicola, timber 2646
Fongarid, soil treatments 2512
Forage crops, diseases, Victoria 2930
Forage legumes
root rots
cultivation methods 4346
environmental factors 4346
Forest trees
air pollution
deposition 3255
uptake 3254
Amylosporus wrightii 2650
Cylindrocladium, isolation 4010
Cylindrocladium scoparium, Malaysia 395
diseases
Canada 761, 4000
Italy 3250
quarantine 3250
spread 3250
UK 2646
Fusarium, isolation 4010
Junghuhnia microspora 2650
mycorrhizas, reviews 2821
Phytophthora cinnamomi, soil fungistasis 4009
Polyporaceae, China 3252
Rhizoctonia solani, Meghalaya 3253
wood destroying fungi
decomposition 4029
Peru 4029
Forestiera neomexicana, *Microsphaera*, taxonomy 2339
Forests
Phytophthora cinnamomi
Australia 1415
root analysis 1415
Formaldehyde
control
Alternaria solani, potatoes 1619
Phoma exigua, potatoes 1180
Rhizoctonia solani, potatoes 365
soil treatments 4185
Fosetyl aluminium, control, *Phytophthora cinnamomi*, avocados 1583
Fragaria (see Strawberries)
France
apples, *Venturia inaequalis* 2545, 2551
clementines, viruses 3038
Cotoneaster dammeri, *Erwinia amylovora* 1063
elms, *Ceratocystis ulmi* 4014
Erwinia amylovora, forecasting 2271
Fusarium crookwellense, hosts 1831
grapevines
Botrytis cinerea 307
diseases 4387
Plasmopara viticola 2569
Uncinula necator 1592, 1593, 1594
grasses, viruses 1540
maize, barley yellow dwarf virus 1481
market gardens, crops, diseases 3737
melons, cucumber mosaic virus 4793
peaches
postharvest decay 3126
Pseudomonas syringae pv. *persicae* 3127
pines, *Leptographium gallaeciae* 4480
Platanus, *Ceratocystis fimbriata* 1659
Poa nemoralis, *Tilletia sabaudiae* 4852
sunflowers, *Sclerotinia sclerotiorum* 2583, 2584, 4400
tomatoes, *Fulvia fulva* 2638, 3242
Frankliniella occidentalis, transmission, tobacco streak virus 1402
Fraxinus
mycorrhizas, host parasite relationships 2307
Pseudomonas syringae ssp. *savastanoi* pv. *fraxini*, pathogenesis 1223
Fraxinus americana, witches broom, stomatal resistance 3468
Fraxinus pennsylvanica, mycorrhizas, host parasite relationships 892
Freesia refracta, bean yellow mosaic virus, relationships 3886
Frommea obtusa* var. *duchesneae, *Duchesnea indica* 3066
Frost injury
apricots 1577
oak 3269
ornamentals 2000
plants
bacteria 2780
reviews 2780
Fruit
diseases
control 2540
Kenya 3734
Netherlands 2541
Reunion 3094
Switzerland 2540
Victoria 2929
triforine, determination 1352
viruses
breeding 1556
Hungary 1556
Fruit trees
Armillaria tabescens
China 2542
environmental factors 2542
spread 2542
diseases
Belgium 4101
Italy 3098
USSR 1092
Erwinia amylovora, legislation 698
viruses
aetiology 699
legislation 698
wound dressings 3099
Frumin AL, seed treatments, cotton 1985
Fuberidazole
control, *Erysiphe graminis*, barley 3501
seed treatments
barley 151, 1899, 1905
maize 3155
wheat 36, 990
Fulvia fulva, tomatoes 388, 1648, 1865, 2638, 3241, 3242, 3470, 3737, 4030
Fumigants, control, *Phytophthora nicotianae* var. *nicotianae*, tobacco 3230
Funaben T
control, *Phoma exigua* var. *linicola*, flax 4913
seed treatments, wheat 3485
Funaben 50, control, *Phoma exigua* var. *linicola*, flax 4913
Fundazol
control
Cercospora beticola, beet 436
cucumbers, diseases 4046
Ophiostoma kubanicum, oak 405
strawberries, diseases 3136
wheat, root rots 989
laboratory tests
Ascochyta agropyrina 240
Valsa cincta 1347
seed treatments, wheat 999
Fungi
biology, books 4113
Canada 2879
classification 1776
cytology, reviews 2766
ecosystems, books 534
genetics, reviews 2766
growth, tissues 1837
Manitoba 4194
metabolites, books 3413
Mexico, reviews 3764
morphogenesis, reviews 2766
Nova Scotia 4189

Fungi *contd.*
Ontario 4192
photography 4853
Portugal 2875
preservation 2901
Punjab 4190
spore germination 930
storage 1838
taxonomy, reviews 2766
techniques, books 2773
Turkey 922
viruses, reviews 1408
Fungicidal fogging, control, rubber, diseases 1189
Fungicides
activity
apples 3556
coffee 3871
Phytophthora 872
plants 872
Rhizobium 872
aerial spraying, UK 2275, 4840
application 974, 4595
crops, Oklahoma 4648
hops, UK 3169
spraying equipment 869
evaluation 31
residues 4595
grapevines 872
tolerance
Japan 2793
models 26, 1795
reviews 870, 871, 1797
toxicity 1311
books 541
translocation, elms 402
Furadan, control, cotton, phyllody 1985
Furalaxyl
fungicide tolerance, *Phytophthora infestans* 4596
soil treatments 2512
Furfural, control, wheat, storage decay 1435
Furmecyclox
activity, apples 3117
control
Coriolus versicolor, apples 3117
Sclerotium rolfsii, turf 1541
Furmetamid, control, *Rhizoctonia solani,* cotton 1991
Fusarium
antagonism, plant pathogens 1051
apples 263
Araucaria 778
Araucaria heterophylla 779
barley 4879
beans (*Phaseolus*) 1269, 2204, 4225, 4643
beet 2183
biological control 1863
books 2325
caraway 3187
cereals 1423, 4653
cotton 212, 675, 3784, 3878
cucumbers 449, 1824
differentiation 4629
Eucalyptus 4463
faba beans 4536
flax 1824
flower bulbs 3057
forage legumes 4346
forest trees 4010
garlic 3389
grapevines 3922
groundnuts 2729
hops 3927
lignocellulose, degradation 3782
lucerne 1087, 1088, 3549, 4710
maize 171, 1479, 2992, 3844, 4225, 4278, 4643
onions 3784
Panax ginseng 1150
peaches 4939
peas 1269, 2708
physiology 2853
potatoes 350, 1158, 1159, 1178, 2592, 2613, 4411
radishes 1824
rhizosphere, pines 44
rice 3032, 4904
soil 1824, 3783, 4181, 4183, 4184
sorghum 186, 3512
Fusarium *contd.*
soyabeans 491, 3340, 3704, 3736
strawberries 3138
Strelitzia reginae 4319
sugarcane 4424
tomatoes 3237, 3784, 3994
Vigna mungo 1308
watermelons 1262
wheat 127, 619, 985, 989, 1436, 2978, 4225, 4643, 4654, 4872
Xanthosoma sagittifolium 3399
zearalenone 4653
Fusarium avenaceum
Betula 4454
cereals 2385
clover 4929
flax 4914, 4916
lucerne 4931
potatoes 1618, 3633
Pseudotsuga menziesii 3670
raspberries 1579
sunflowers 2582
tomatoes 4772
wheat 1448, 2961
Fusarium avenaceum* f.sp. *herbarum, tomatoes 1644
Fusarium crookwellense
characteristics 1831
geographical distribution 1831
hosts 1831
Fusarium culmorum
Agrostis 3892
barley 2388
cereals 986, 4653
clover 4929
cucumbers 1265
Gladiolus 1066
Lolium perenne 2388
lucerne 4931
maize 1913, 2446
potatoes 1618, 3633
raspberries 1579
rye 3843
soil 2865, 4183
spore germination 4256
wheat 127, 987, 2388, 2961, 4239, 4240, 4256
Fusarium dimerum
Cycas circinalis 3065
soil 4183
Fusarium equiseti
carnations 3062
cowpeas 3710
cucumbers 1265
Cucurbitaceae 2198
lucerne 4931
maize 2446
melons 1268
potatoes 3633
rice 4904
sorghum 3512
strawberries 1121
sunflowers 2582
Fusarium fusarioides
pomegranates 4726
Trianthema portulacastrum 1766
Fusarium merismoides, soil 4183
Fusarium nivale
activity, soil fungistasis 2864
Agrostis 3892
barley 152
cereals 2382, 4646
Festuca pratensis 2524
grasses 4646
Lolium 238
Lolium multiflorum 3085
Lolium perenne 2524
rye 2436, 3843
wheat 615, 987, 1448, 2979
Fusarium oxysporum
Abies concolor 2171
Abies magnifica 2171
actinomycetes, hyperparasitism 2767
Araucaria 778
Araucaria heterophylla 779
asparagus 4566
Benincasia hispida 3323
carnations 3062
Cicer arietinum 3713
clover 4929
cucumbers 1265, 1691, 4030
enzymes 2319
faba beans 1270, 1708, 4532
Fusarium oxysporum *contd.*
Gladiolus 1066, 3057
Heterodera glycines 68
inhibition, *Nocardia salmonicolor* 38
laboratory tests
fungicides 4084
pesticides 4538
phenylthiourea 34
plant extracts 1359
lentils 1269
lucerne 4350, 4931
maize 4278
melons 1268, 3682
Mentha arvensis 3608
onions 1743
peas 454, 1698, 3330
physiology 4175, 4612
pines 1240, 2171
potatoes 731, 3633
Pseudotsuga menziesii 3299, 3430, 3431
rice 3029
safflower 1146, 3172
soil 68, 2865, 4183, 4350
soyabeans 1291, 1712
strawberries 1121, 1123, 2558, 2559
sunflowers 2582
sweet potatoes 525
tobacco 3220
tomatoes 3236
Trichoderma, antagonism 1389
Vigna radiata 1734
watermelons 1262
wheat 2961
yams 4092
Fusarium oxysporum* f.sp. *albedinis
actinomycetes, hyperparasitism 2767
date palms 730, 1157, 2767
Fusarium oxysporum* f.sp. *apii, celery 4790
Fusarium oxysporum* f.sp. *cepae, onions 825, 1742, 4562
Fusarium oxysporum* f.sp. *chrysanthemi, *Chrysanthemum* 3536, 3537, 4865
Fusarium oxysporum* f.sp. *ciceri
Cicer arietinum 502, 816, 1732, 1737, 2737
herbicides, laboratory tests 33
Fusarium oxysporum* f.sp. *conglutinans, Brussels sprouts 1685
Fusarium oxysporum* f.sp. *cubense, bananas 110, 721, 4380
Fusarium oxysporum* f.sp. *cucumerinum
cucumbers 1691, 4046, 4506
soil 63
Fusarium oxysporum* f.sp. *cumini, laboratory tests, plant extracts 2282
Fusarium oxysporum* f.sp. *dianthi
carnations 2006, 4321, 4322, 4323, 4698
control, *Fusarium oxysporum* f.sp. *lycopersici,* tomatoes 386
tomatoes 386
Fusarium oxysporum* f.sp. *fabae, faba beans 4536
Fusarium oxysporum* f.sp. *fatshederae, *Fatshedera lizei* 3068
Fusarium oxysporum* f.sp. *gladioli, Iris 3069
Fusarium oxysporum* f.sp. *lentis
lentils 2741
Vicia ervilia 2741
Fusarium oxysporum* f.sp. *lini, flax 110, 1824, 2502, 4316, 4865
Fusarium oxysporum* f.sp. *lupini, lupins 4352
Fusarium oxysporum* f.sp. *lycopersici
crops 907
differentiation 4629
fungicide tolerance 384, 1350
laboratory tests
fungicides 3811, 4846
plant extracts 2282
physiology 2860
tomatoes 385, 386, 1211, 1212, 1645, 2145, 2146, 2148, 2634, 2636, 2943, 3027, 3234, 3989, 3990, 3991
Fusarium oxysporum* f.sp. *medicaginis, lucerne 2028, 3092, 3900
Fusarium oxysporum* f.sp. *melonis
crops 907
cucumbers 1691
melons 4508
soil 4508
Fusarium oxysporum* f.sp. *momordicae, *Momordica charantia* 3322

***Fusarium oxysporum* f.sp. *narcissi*,** *Narcissus* 1999
Fusarium oxysporum* f.sp. *niveum
crops 907
squash 3324
watermelons 1262, 1264, 4503, 4647, 5024
***Fusarium oxysporum* f.sp. *phaseoli*,** beans (*Phaseolus*) 2202
***Fusarium oxysporum* f.sp. *pisi*,** peas 1, 793, 2943, 4803
***Fusarium oxysporum* f.sp. *radicis-lycopersici*,** tomatoes 2147
***Fusarium oxysporum* f.sp. *raphani*,** radishes 2687
***Fusarium oxysporum* f.sp. *ricini*,** *Ricinus communis* 1602, 1603, 1604
***Fusarium oxysporum* f.sp. *sesami*,** sesame 1606, 1607, 3177
***Fusarium oxysporum* f.sp. *spinaciae*,** spinach 4033
***Fusarium oxysporum* f.sp. *tulipae*,** tulips 3080
Fusarium oxysporum* f.sp. *vasinfectum
cotton 213, 676, 1052, 1987, 1988, 2498, 2499, 2500, 3530, 3880, 4647, 4911
Hibiscus esculentus 2751
laboratory tests, fungicides 3811
serology 1820
***Fusarium oxysporum* var. *aurantiacum*,** apples 3905
***Fusarium oxysporum* var. *herbemontis*,** grapevines 3159
Fusarium poae
Canada 74
maize 2446
wheat 127
Fusarium roseum
barley 152
lucerne 1089
potatoes 2614
wheat 1448, 3823
Fusarium semitectum
Gladiolus 1066
pines 416
sorghum 2449
tomatoes 3993
Fusarium solani
Araucaria 778
beans (*Phaseolus*) 1793
cellulase 4611
Cicer arietinum 504, 1737, 1739, 2225, 2737, 4078
citrus 1516
coumarins 4600
cowpeas 1270
cucumbers 1265
Cyamopsis tetragonoloba 3379
faba beans 2715, 2716, 2717
Gladiolus 1066
Heterodera glycines 68
lucerne 4931
maize 4278
melons 1268
onions 1743, 4823
pears 1859
peas 3238
physiology 1385, 4612
pines 416, 1240, 4319
Platanus orientalis 2167
potatoes 731, 2613, 3633, 3945
rubber 4423
sesame 1766
soil 68, 3379
strawberries 1121
sweet potatoes 2754
tobacco 3220
tomatoes 3238, 3239
***Fusarium solani* f.sp. *argillaceum*,** tomatoes 1644
***Fusarium solani* f.sp. *batatas*,** sweet potatoes 2753
***Fusarium solani* f.sp. *coeruleum*,** potatoes 1618
***Fusarium solani* f.sp. *fabae*,** faba beans 4532
Fusarium solani* f.sp. *phaseoli
beans (*Phaseolus*) 466, 804, 5029
peas 4511
Fusarium solani* f.sp. *piperis*, *Piper nigrum 8
***Fusarium solani* f.sp. *pisi*,** peas 1694, 1695, 4515
***Fusarium solani* f.sp. *radicicola*,** sweet potatoes 2754
Fusarium solani* var. *coeruleum
physiology 3632
potatoes 1160, 2102, 2612, 3612, 3632, 3633, 4747
sweet potatoes 2754
Fusarium sporotrichioides
Gladiolus 1066
maize 4677
***Fusarium sporotrichioides* var. *sporotrichioides*,** Canada 74
Fusarium tabacinum
lucerne 4931
soil 4183
***Fusarium trichothecioides*,** potatoes 3211
***Fusarium tricinctum*,** cereals
Fusarium udum
Crotalaria juncea 217
laboratory tests, plant extracts 2282
pigeon peas 1731, 2736, 2738, 2742, 4821
soil 2323, 2742
***Fusicoccum amygdali*,** mycotoxins 4613
***Fusicoccum quercus*,** oak 4015
Fycop, control, *Phaeodactylium venkatesanum*, *Elettaria cardamomum* 3931
Fytolan
control
Phaeodactylium venkatesanum, *Elettaria cardamomum* 3931
Phytophthora nicotianae var. *parasitica*, *Piper betle* 2066
GA
control, *Botrytis cinerea*, grapevines 313, 3164
Verticillium 572
Gabon
bananas
banana bunchy top virus 3141
Mycosphaerella fijiensis 719
Gaeumannomyces graminis
barley 2868
cereals 986, 3478, 3817, 4233
growth 1895
interactions, amoeba 583
rice 2460
viruses 4214
wheat 142, 143, 632, 987, 989, 1894, 1896, 2412, 2868, 2960, 3490, 3491, 3492, 3829, 4200, 4238, 4255
Gaeumannomyces graminis* var. *avenae
Agrostis palustris 3547
Agrostis tenuis 3547
Gaeumannomyces graminis* var. *graminis
soyabeans 484
wheat 4240
***Gaeumannomyces graminis* var. *tritici*,** wheat 4239, 4240
***Gahnia setifolia*, *Stenella gahniae*,** New Zealand 2326
Galben
control
Plasmopara viticola, grapevines 296
Pleiochaeta setosa, lupins 1090
fungicide tolerance, *Pseudoperonospora cubensis* 2699
***Galinsoga* mosaic virus**
characterization 2922
CMI/AAB descriptions 89
Gamma radiation
activity
onions 1867
potatoes 1867
control, *Pythium*, soil 3057
seed treatments, onions 512
***Ganoderma*,** oil palms 2937
***Ganoderma applanatum*,** forest trees 4029
Ganoderma lucidum
coconuts 3194, 4407
Gleditsia triacanthos 3251
trees 1221
***Garcinia mangostana*,** plant extracts, antifungal agents 3763
***Gardenia*, *Phomopsis*,** Italy 228
Garlic
Alternaria porri, varietal reactions 516
Fusarium, control 3389
Helminthosporium allii
Austria 3387
control 3387
spread 3387
Garlic *contd.*
tobacco mosaic virus crucifer str., Japan 4559
viruses
elimination 823, 5052
Japan 4559
UK 5052
Gases, activity, plant diseases 3757
Gasteromycetes, mycorrhizas 2820
Gastrodia elata
Armillaria mellea
enzymes 231
histochemistry 231
***Gaylussacia baccata*, *Monilinia*,** biology 3133
GCA 64250
control
Akaropeltopsis, avocados 4945
Dothiorella aromatica, avocados 4945
Glomerella cingulata, avocados 4945
Georgia
apples, *Botryosphaeria dothidea* 1557
maize, diseases 2991
peaches
Botryosphaeria 1574
Botryosphaeria dothidea 1557
pecans, *Agrobacterium tumefaciens* 3270
Setaria geniculata, *Beniowskia sphaeroidea* 1765
tomatoes, *Pseudomonas syringae* pv. *tomato* 392, 4446
Georgian SSR
grapevines
Botrytis cinerea 315
diseases 3160
Geotrichum candidum
Citrullus vulgaris var. *fistulosus* 4798
citrus 1973, 4910
cocoa 8
enzymes 2858
lemons 207, 1975
tomatoes 2144
***Geranium*, *Uromyces geranii*,** Portugal 2875
***Gerbera*, *Phytophthora cryptogea*,** control 1800
Gerlachia oryzae
Gramineae 200
rice 200
German Democratic Republic
apples, *Botryosphaeria obtusa* 3908
caraway, diseases 3187
cereals, viruses 3476
cucumbers, *Puccinia trabutii* 3327
hops, diseases 4735
Hordeum murinum, wheat streak mosaic virus 1084
Lolium multiflorum, fungi 4707
lupins, bacterial diseases 4711
medicinal plants, diseases 3170
plant diseases 3738
plant viruses, control 3795
potatoes
Phytophthora infestans 3948
viruses 3938
small fruits, viruses 1113
spice plants, diseases 3170
strawberries, diseases 1122
Uredinales 73
German Federal Republic
Anemone nemorosa, diseases 4580
apples, diseases 3106
barley, barley yellow mosaic virus 1458
beans (*Phaseolus*), *Erysiphe cichoracearum* 4805
cereals, *Ascochyta* 3820
cherries, *Petunia* asteroid mosaic virus 3128
Coniferae, root and butt rots 413
grapevines, *Botrytis cinerea* 318
pines, fungi 4485
plant diseases, legislation 1802, 1803, 1804, 2807, 4135
potatoes, *Synchytrium endobioticum* 4755
rape, *Sclerotinia sclerotiorum* 4789
***Gevuina avellana*, *Pestalotia truncata*,** Chile 3279
***Gibasis geniculata*,** bean yellow mosaic virus, strains 227
Gibberella acuminata
cereals 2385
lucerne 3549

Gibberella acuminata *contd.*
wheat 4872
Gibberella baccata
activity, plant oils 3427
epidemiology, *Fagus,* diseases 2646
pines 416
Gibberella baccata* f.sp. *mori, mulberries 716
Gibberella cyanogena
potatoes 731, 1160, 2102, 3626, 3633, 4747
sporulation 86
Gibberella fujikuroi
carnations 3062
clover 2532, 2533
Dracaena deremensis 4319
Dracaena marginata 218
enzymes 570
fungi, antagonism 2862
genetics 78, 4196
gravity, zoning 3442
laboratory tests 37
plant extracts 1799
maize 171, 1913, 2444, 2446, 4277, 4677
physiology 1819
pines 416
protoplasts 1382
radishes 4040
rice 4904
sorghum 186, 2449, 3512, 4281
taxonomy 589
Gibberella fujikuroi* var. *subglutinans
hosts 2054
maize 2446, 4677
pineapples 1130, 2054, 3149, 3150
pines 416, 421, 1240, 1243, 1669
Gibberella gordonia
Festuca arundinacea 243
hyperparasitism, *Claviceps purpurea* 3890
Gibberella pulicaris
potatoes 1618, 3633, 3954, 4967
Pseudotsuga menziesii 3670
sunflowers 2582
Gibberella saubinetii
barley 4871
wheat 147, 4871, 4878
Gibberella stilboides, tomatoes 1644
Gibberella zeae
biological control 27
cereals 2385
enzyme activity 3443
enzymes 4166
lucerne 4931
maize 171, 1013, 1488, 1913, 1914, 2998, 4677
pines 416
wheat 118, 146, 2415, 2962, 4239, 4240, 4666, 4877
Gibberellins
activity, groundnuts 814
control, *Botrytis cinerea,* grapevines 302
Gigaspora
clover, mycorrhizas 1366
keys 553
soil 2297
weeds 2296
Gigaspora calospora
leeks, mycorrhizas 56
oats, mycorrhizas 56
strawberries, mycorrhizas 56
Gigaspora gigantea
beans (*Phaseolus*) 54
maize 54
soyabeans, mycorrhizas 559
Gigaspora gregaria, soyabeans, mycorrhizas 59
Gigaspora margarita
clover, mycorrhizas 3775
Lolium perenne, mycorrhizas 560
spore germination 2295
trees, mycorrhizas 2307
Gigaspora pellucida, soyabeans, mycorrhizas 59
Gigaspora reticulata
Coleus, mycorrhizas 2305
Sudan grass, mycorrhizas 2305
Ginger
diseases
India 4393
rhizomes, control 3193
Pythium zingiberum
detection 2587
Ginger *contd.*
Pythium zingiberum contd.
Japan 2586
Gladiolus
bean yellow mosaic virus
Florida 3886
relationships 3886
diseases, Queensland 4325
Fusarium, Hungary 1066
mycoplasmas, Italy 3540
Penicillium, Hungary 1066
Uromyces transversalis
Brazil 1065
varietal reactions 1065
viruses, Italy 3540
Gleditsia triacanthos, Nectria cinnabarina 773
Gliocladium
clover 4929
control
Fusarium oxysporum f.sp. *dianthi,* carnations 2006
Phomopsis sclerotioides, cucumbers 2197
soyabeans 3704
Gliocladium aureum, carrots 443
Gliocladium roseum
antagonism, *Phytophthora palmivora* 113
apples 1559, 1560
cultures 904
hyperparasitism, *Botrytis allii* 514
Gliocladium virens
antagonism, *Verticillium dahliae* 1986
control, *Pythium ultimum,* cotton 3056
Gliovirin, control, *Pythium ultimum,* cotton 3056
Globe artichokes
artichoke latent virus
characterization 1319
geographical distribution 1319
Italy 1319
Verticillium dahliae
control 2242
Italy 2242
viruses
detection 1746
elimination 4085
Italy 1746
tissue culture 3727
Gloeocercospora sorghi, sorghum 4281
Gloeocoryneum hawaiiense, Acacia koa 4012
Gloeophyllum abietinum, antagonism, *Heterobasidion annosum* 3780
Gloeophyllum saepiarium, timber 3304
Gloeophyllum trabeum
forest trees 4029
spore germination 2649
timber 3304
Gloeosporium, oranges 1042
Gloeosporium platani, Platanus 4011
Gloeosporium quercinum, oak 2646
Gloeosporium theae-sinensis, tea 3642
Gloeotinia temulenta, Lolium perenne 1082
Glomerella
Actinidia chinensis 1132
tomatoes 1643
Glomerella cingulata
Anemone 1060, 3057, 3061
avocados 2051, 3586, 3588, 4943, 4945
Camellia reticulata 682
Capsicum 830, 831, 900, 1750, 1858, 3728, 4569
cassava 5063
citrus 1514, 3042
coffee 1981, 1982, 3529, 4308, 4311, 4314
Croton bicolor 4626
Dieffenbachia amoena 4319
Dioscorea bulbifera 4626
Hakea sericea 5065
laboratory tests, fungicides 3758
lemons 1970
mangoes 1584
Nepenthes khasiana 4830
nomenclature 2341
papayas 3148, 4957
peaches 3573
rubber 738, 739, 1189, 2128
soyabeans 807
Strychnos nux-vomica 1597
Stylosanthes capitata 697
Glomerella cingulata *contd.*
tomatoes 3654
Vaccinium corymbosum 4372
yams 4092
Zinnia 237
Glomerella cingulata* var. *minor, avocados 1127
Glomerella glycines, soyabeans 491, 807
Glomerella tucumanensis
laboratory tests, plant extracts 1798
sugarcane 376, 745, 1418, 3968, 3969
Glomus
apples, mycorrhizas 4157, 4158
clover, mycorrhizas 1366
keys 553
leeks, mycorrhizas 4157, 4158
maize, *mycorrhizas* 3774
mycorrhizas
diagnosis 3767
structure 554
onions, mycorrhizas 1370, 3774
soil 2297
structure 554
Tagetes patula, mycorrhizas 4157, 4158
Glomus abyssinicum, Eupatorium odoratum, mycorrhizas 4844
Glomus caledonium
barley, mycorrhizas 4842
growth 2832
laboratory tests 2832
maize, mycorrhizas 3774
onions, mycorrhizas 3774
spore germination 47, 4144, 4607
Glomus claroideum, soyabeans, mycorrhizas 59
Glomus clarum
clover, mycorrhizas 2823
maize
mycorrhizas 3774
Illinois 2827
mycorrhizas, onions 3774
Polygonum hydropiperoides, mycorrhizas, Illinois 2827
soil 2866
soyabeans, mycorrhizas 59
Glomus epigaeum
apples, mycorrhizas 2835, 4157, 4158
cowpeas, mycorrhizas 2304
leeks, mycorrhizas 56, 4157, 4158
mycorrhizas, diagnosis 3767
oats, mycorrhizas 56
spore germination 565
strawberries, mycorrhizas 56
Tagetes patula, mycorrhizas 4157, 4158
trees, mycorrhizas 2307
Glomus etunicatum
citrus, mycorrhizas 3436
clover, mycorrhizas 50
soil 2866
trees, mycorrhizas 2307
Glomus fasciculatum
Capsicum, mycorrhizas 4156
clover, mycorrhizas , 4150
Eleusine coracana, mycorrhizas 563
grapevines, mycorrhizas 895
grasses, mycorrhizas 2294
groundnuts, mycorrhizas 2306
inoculum 1814
maize, mycorrhizas 1814
peppermint, mycorrhizas 3437
soyabeans, mycorrhizas 4151, 4153
Sudan grass, mycorrhizas 58
tomatoes, mycorrhizas 891, 4149
trees, mycorrhizas 2307, 2814
wheat, mycorrhizas 1816
Glomus geosporum, taxonomy 52
Glomus intraradices, lemons, mycorrhizas 1815
Glomus macrocarpus
Ageratum houstonianum, mycorrhizas 1368
Capsicum, mycorrhizas 1368, 4843
Eupatorium odoratum, mycorrhizas 4843, 4844
grasses, mycorrhizas 2294
morphology 55
scanning electron microscopy 55
soil 2866
trees, mycorrhizas 2307
Glomus macrocarpus* var. *geosporum, taxonomy 52

Glomus macrocarpus* var. *macrocarpus
leeks, mycorrhizas 56
oats, mycorrhizas 56
strawberries, mycorrhizas 56
***Glomus microcarpus*, grasses, mycorrhizas** 2294
Glomus monosporum
apples, mycorrhizas 4157, 4158
clover, mycorrhizas 2833
leeks, mycorrhizas 56, 4157, 4158
oats, mycorrhizas 56
strawberries, mycorrhizas 56
Tagetes patula, mycorrhizas 4157, 4158
Glomus mosseae
apples, mycorrhizas 3438
barley, mycorrhizas 561, 2298
beans (*Phaseolus*), mycorrhizas 48
citrus, mycorrhizas 3436
clover, mycorrhizas 50
cowpeas, mycorrhizas 2304
faba beans, mycorrhizas 4152, 4154
grasses, mycorrhizas 2294
inoculum 1814
leeks, mycorrhizas 49
lettuce, mycorrhizas 2824
maize, mycorrhizas 893, 1814
soyabeans, mycorrhizas 59
spore germination 4144
trees, mycorrhizas 2307
wheat, mycorrhizas 1816, 2298
***Glomus occultum*, taxonomy** 52
***Glomus tenue*, clover, mycorrhizas** 890, 2833
***Glomus* E_3, cowpeas, mycorrhizas** 2304
Gloxinia, *Phytophthora nicotianae* var. *nicotianae*, control 2512
Glucosamine, activity, *Verticillium albo-atrum* 4176
***Glyceria striata*, *Tilletia*, morphology** 2315
Glycine max (see Soyabeans)
Glycinol, activity, *Erwinia carotovora* 4545
Glycophene, control, *Botrytis cinerea*, grapevines 3163
***Gnomonia comari*, CMI descriptions** 85
Gnomonia leptostyla
taxonomy 83
walnuts 4019
Gnomonia platani*, *Platanus 3271, 4467
Godronia multispora*, *Betula 4454
Gomphrena globosa
dandelion latent virus, indicator plants 943
potato virus X, indicator plants 3614
tomato bushy stunt virus, flavonoids 4639
***Goodyera repens*, *Rhizoctonia goodyerae-repentis*, mycorrhizas** 2836
***Goplana*, yams** 2250
***Goplana australis*, yams** 2250
Gossypium (see Cotton)
Gramicidin S, inhibition, tobacco mosaic virus 752
Gramineae (see also Grasses)
barley yellow dwarf virus, hosts 2353
brome mosaic virus, hosts 977
Gerlachia oryzae, spread 200
Monographella albescens, varietal reactions 1953
Pyricularia
classification 585
Japan 585
Uredinales, Kazakh SSR 1080
viruses
conferences 1329
Europe 1329
***Graminella nigrifrons*, transmission, maize chlorotic dwarf virus** 4671
Grandstand, control, mushrooms, diseases 2236
Granosan, control, wheat, root rots 989
Granosan 200, seed treatments, barley 1905
Grapefruits
Botryodiplodia theobromae, control 2494
citrus impietratura virus, epidemiology 203
citrus psorosis virus, epidemiology 203
citrus tristeza virus, Italy 3864
Diaporthe citri, control 2494
fungi
ethylene 4910
symptoms 1514
greening, metabolism 2490
Grapefruits *contd.*
Mycosphaerella citri
control 206
Florida 206
Grapevine fanleaf virus, grapevines 292, 293, 1134, 2567, 3156
Grapevine flavescence dorée, grapevines 3157
Grapevine fleck virus, grapevines 1134, 3600
Grapevine leaf roll virus, grapevines 1134, 2059, 2565, 2566, 2567, 3158, 3600, 4730
Grapevine necrosis virus, grapevines 4730
Grapevine summer mottle virus, grapevines 1134
Grapevine vein mosaic virus, grapevines 4729, 4730
Grapevine veinclearing virus, grapevines 2567
Grapevine yellow speckle virus, grapevines 1134, 3600
Grapevines
Agrobacterium tumefaciens
genetics 2063
hosts 2063
isolation 3166
plasmids 2575
varietal reactions 2063
Arabis mosaic virus
Italy 1591
symptoms 1591
bayleton, translocation 2061
Botrytis cinerea
Argentina 3164
Armenian SSR 316
assays 304
biochemistry 332
biological control 327, 4732
breeding 325
California 4958
conferences 299
control 302, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 323, 330, 871, 2062, 2573, 2574, 3161, 3163, 3164
cultural methods 4958
disease models 330, 2574
economics 300
environmental factors 328
enzymes 322, 333, 4733
epidemiology 303
fermentation 3162
forecasting 331
France 307, 321
fungicide tolerance 318, 319, 320, 321, 322, 324, 4731
fungicides 4959
Georgian SSR 315
German Federal Republic 318
Hungary 314
integrated control 725
interactions 301, 302
Italy 311, 329
New York 313
phytoalexins 326
Portugal 317
resistance 326
Spain 310
susceptibility 4959
Switzerland 319
varietal reactions 329, 1140
yield losses 317
Yugoslavia 312
Cladosporium, enzyme activity 4733
decline, Italy 294
diseases
Brazil 3159, 3922
certification 2928
control 2058, 2568, 3159, 3926, 4387
Florida 2058
France 4387
fungi 3922
fungicide tolerance 4387
Georgian SSR 3160
Italy 2928, 3098
Switzerland 291, 2568
symptoms 291
Elsinoë ampelina, control 4734
Eutypa armeniacae
aetiology 1141
control 4960
serology 4390
symptoms 4388
Grapevines *contd.*
Eutypa armeniacae contd.
taxonomy 1141
Turkey 4388
Washington 1141
flavescence dorée
Greece 3157
mycoplasmas 3599
symptoms 3157
fluoride, activity 4392
fungicides, phytotoxicity 2570
Glomus fasciculatum, mycorrhizas, ultrastructure 895
grapevine fanleaf virus 293
Austria 293
control 293
detection 292
reviews 3156
grapevine fleck virus, transmission 3600
grapevine leaf roll virus
control 3158
cytology 2059
detection 2565
elimination 2566
histology 2059
transmission 3600
grapevine vein mosaic virus, Bulgaria 4729
grapevine yellow speckle virus, transmission 3600
Guignardia bidwellii, control 334, 335
leaf roll, aetiology 2564
mal del rigato
Italy 4391
soil conditions 4391
methyl bromide, damage 3598
mineral deficiencies, potassium 4391
peach rosette mosaic virus, control 4386
Phomopsis viticola
biology 3165
California 337
control 337, 1143
Hungary 1143
physiological disorders
control 302
interactions 302
Phytophthora cinnamomi, infection 3603
Pierces disease
bacteria, vectors 3417
bacterium 2788
cultures 2788
symptoms 2788
Plasmopara viticola
biology 1139
climatic zones 2371
control 295, 296, 1137, 1138, 2570, 2801, 3601
disease models 2569
enzyme activity 2571
France 2569
Italy 1138, 3923
phytoncides 2571
spore germination 3923
Pseudomonas, isolation 3747
Pseudopeziza tracheiphila
control 336, 3925, 3926
Switzerland 336, 3925
Sclerotinia fuckeliana
characteristics 2572
control 3602
Romania 3602
spray drift 2562
stem pitting, elimination 4730
strawberry latent ringspot virus, particles 939
tomato ringspot virus
epidemiology 260
Ontario 1135, 1136
varietal reactions 1136
Uncinula necator
buds 297
California 297
control 298, 313, 1592, 1593, 1594, 3924, 4959
France 1592, 1593, 1594
New York 313
Verticillium dahliae
isolation 4389
Turkey 1142
viruses
Bulgaria 2567
control 2060, 2563
elimination 1134, 4385, 4730

Grapevines *contd.*
viruses *contd.*
Italy 2904, 4385
testing 4385
transmission 2060
yield losses 2567
wound dressings 3099
yellowing, mycoplasmas 3599
yellows, Italy 294
Graphiola phoenicis
Phoenix 347
Phoenix canariensis 3200
Graphiolales, taxonomy 347
Graphium penicillioides, Cyamopsis tetragonoloba 4077
Grasses (see also Gramineae)
Acremonium, taxonomy 81
air pollution
damage 3082
varietal reactions 3082
barley yellow dwarf virus
Canada 2379
epidemiology 689, 2379
Indiana 689
strains 2379
Bipolaris 239
brome mosaic virus, UK 2528
diseases, Victoria 2930
Fusarium nivale, taxonomy 4646
Peronosclerospora sorghi, Thailand 4220
Puccinia graminis
ecology 4235
specialization 4227
rice gall dwarf virus, hosts 1935
viruses, France 1540
Xanthomonas campestris pv. *cerealis,* infection 646
Xanthomonas campestris pv. *graminis,* hosts 241
Greece
almonds, *Eutypa armeniacae* 2555
chestnuts, *Cryphonectria parasitica* 3259
crops, *Botrytis cinerea* 2946
cucumbers, cucumber fruit streak virus 3318
eggplants
brown root rot 3236
viruses 4574
grapevines, flavescence dorée 3157
Puccinia 4219
tomatoes, brown root rot 3236
Uromyces 4219
Green manures, *Fusarium oxysporum* f.sp. *vasinfectum,* cotton 1988
Greenhouse crops, Erysiphales, control 3473
Gremmeniella abietina
Abies alba 5001
Abies sachalinensis 5001
Coniferae 761, 1235
pines 2662, 3286, 5001, 5005
spruce 3286
Grewia asiatica
Phoma sorghina, Rajasthan 4705
Sclerotium rolfsii, India 289
Griseofulvin, seed treatments, Indian mustard 3313
Groundnut clump virus, groundnuts 2729
Groundnut green mosaic virus, groundnuts 3355
Groundnut mottle virus
Arachis chacoense 5040
cowpeas 3375
groundnuts 813, 2729, 3093, 4547, 4549, 5040
lupins 3093
relationships 1720
soyabeans 3093
Groundnut stunt virus
beans (*Phaseolus*) 1403
clover 1403, 4927
Groundnuts
Alternaria tenuissima, India 1299
Aspergillus alternata, integrated control 4069
Aspergillus flavus
control 4548
environmental factors 4548
Queensland 4548
varietal reactions 4068
Aspergillus niger
control 498, 3365
environmental factors 498
Groundnuts *contd.*
Cochliobolus spicifer, India 1300
Cylindrocladium crotalariae
histology 1298
varietal reactions 1298
Didymosphaeria arachidicola, interactions 2730
diseases
Brazil 1721
control 1693, 1721, 2938, 5041
reviews 3352
India 2729
testing 2729
yield losses 5041
fungi
Maharashtra 1724, 1725
seed 1724, 1725
Glomus fasciculatus, mycorrhizas, host parasite relationships 2306
groundnut green mosaic virus, host parasite relationships 3355
groundnut mottle virus
characteristics 4547
epidemiology 3093
India 4547
interactions 813
purification 4547
relationships 4547
Rhizobium 4549
sources 5040
symptoms 4549
yield losses 813, 3093
Indian peanut clump virus
characteristics 3361
hosts 3361
Punjab 3361
Macrophomina phaseolina
control 3365, 4072
epidemiology 3371
Mycosphaerella, control 4070, 4071
Mycosphaerella arachidis
breeding 2215, 3364
control 3366, 3367
inoculation 3362
interactions 2730
physiology 1726
sporulation 4067
varietal reactions 3362, 4067
Mycosphaerella berkeleyi
breeding 3364
control 3284, 3366, 3367
genetics 1297
host parasite relationships 3707
ozone, yield losses 4073
Phoma microspora
control 3369
susceptibility 3363
varietal reactions 3363
Pseudomonas solanacearum, biological control 3755
Puccinia arachidis
breeding 3364
control 494, 3284, 3366, 3367, 3368, 4070, 5043
epidemiology 497
India 1723
insects 1296
interactions 813
resistance, sources 3372
reviews 1722
spore discharge 1723
Taiwan 497
testing 3374
urediospores 4551
varietal reactions 4551
yield losses 813
Pythium myriotylum, growth regulators 814
Rhizoctonia solani
New Mexico 3708
Texas 3708
Sclerotinia minor
chlorothalonil 4066
control 3373
rotations 4550
sclerotia 4550
survival 4550
Virginia 4550
Sclerotium rolfsii
control 495, 496, 3370
varietal reactions 3283
seed treatments, seed germination 3706
soil fungi, biological control 4619
Groundnuts *contd.*
storage losses 1295
Thielaviopsis basicola
breeding 5042
varietal reactions 5042
tomato spotted wilt virus
control 3282
yield losses 3354
tomato spotted wilt virus groundnut ring mosaic strain
control 3359
plant extracts 3356, 3357, 3358, 3359
Verticillium albo-atrum, susceptibility 968
viruses
control 3360
detection 3353
Growth regulators
activity
Agrobacterium tumefaciens, potatoes 2123
apples 3119
Colletotrichum truncatum, soyabeans 4539
groundnuts 814
sesame, phyllody 3173
control
guavas, storage decay 3144
storage decay, fruit 1559
interactions, *Cylindrocladium crotalariae,* soyabeans 3345
Guadeloupe
yams
fungi 4092
viruses 4090
Guanidines, activity, plant viruses 3618
Guatemala
coffee
Hemileia vastatrix 209
Koleroga noxius 3877
Phyllosticta coffeicola 1983
Guavas
Phytophthora citricola, Hawaii 285
storage decay, control 1129, 3144
Guazatine
control
avocados, storage decay 1127
Ceratocystis paradoxa, sugarcane 1196
Corticium sasakii, rice 2475
Geotrichum candidum, lemons 207
guava, storage decay 1129
rice, discoloration 1501
storage decay, cantaloupes 5022
seed treatments, barley 1904
Guignardia aesculi, Aesculus hippocastanum 4011
Guignardia bidwellii, grapevines 334, 335
Guignardia camelliae, tea 378
Guignardia musae, bananas 105
Gymnosporangium clavipes* f.sp. *cupressi, Cupressaceae 2667
Gymnosporangium cunninghamianum, Cupressaceae 2667
Gymnosporangium cupressi, Cupressaceae 2667
Gymnosporangium fuscum, Cupressaceae 2667
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium haraeanum
Juniperus 3912
pears 3912
Gymnosporangium juniperi-virginianae,
apples 2369
Haitin, control, *Hemileia vastatrix,* coffee 1979
Hakea sericea, Glomerella cingulata, biological control 5065
Halyomorpha halys, transmission, *Paulownia,* witches broom 3277
Hapalophragmium nsukkaensis, Millettia 2933
Hapalosphaeria deformans
raspberries 1115
Rubus 1115
Haryana
Cicer arietinum, Macrophomina phaseolina 4820
Ziziphus mauritiana, diseases 2057
Hawaii
Acacia koa, Gloeocoryneum hawaiiense 4012

Hawaii *contd.*
Chamaecyparis lawsoniana, Stigmina thujina 425
guavas, *Phytophthora citricola* 285
lettuce, tipburn 3722
lucerne
Calonectria crotalariae 258
Cylindrocladium clavatum 258
Metrosideros collina, Diaporthopsis metrosideri 3278
pines, *Botryosphaeria dothidea* 3668
Schefflera actinophylla, Pythium splendens 3545
sugarcane
Puccinia melanocephala 1628
Ustilago scitaminea 3641
trees, death 3999
Heat treatment
activity, *Xanthomonas campestris* pv. *malvacearum* 3882
control
cherries, viruses 4370
Didymocladium ternatum, mushrooms 2745
grapevines, viruses 1134, 4730
potatoes, viruses 3939
Pythium, soil 3057
viruses, sweet potatoes 2248
seed treatments 757
groundnuts 498
soyabeans 2727
soil treatments 1527
tomatoes 757
Hebe, Septoria veronicae, Italy 3541
Hebeloma, antifungal agents, plant pathogens 881
Hebeloma crustuliniforme
Calluna vulgaris, mycorrhizas 3440
Erica, mycorrhizas 3440
Hebeloma cylindrosporum, chestnuts, mycorrhizas 3432
Hebeloma pusillum
enzymes 1811
Salix rotundifolia, mycorrhizas 1811
Hebeloma sacchariolens, trees, mycorrhizas 4606
***Helenium* virus S,** *Impatiens holstii* 3070
Helianthus, Alternaria helianthi, resistance 3611
Helianthus annuus (see Sunflowers)
Helichrysum bracteatum, Cercospora helichrysi, India 1532
Helicobasidium mompa, apples 2547
Helictotrichon pubescens, brome mosaic virus, UK 2528
Heliotropium europaeum, cucumber mosaic virus, Italy 4567
Helminthosporium
activity
DPX 3217 4599
mancozeb 4599
Araucaria heterophylla 779
date palms 1155
Eichhornia crassipes 2253
maize 171
rice 3010
wheat 2978
Helminthosporium allii, garlic 3387
Helminthosporium apattarnae, antagonists 2958
Helminthosporium bicolor, physiology 4280
Helminthosporium oligosporum, Canada 2885
Helminthosporium panici-miliacei, Panicum miliaceum 4681
Helminthosporium solani
Canada 74
potatoes 2080, 2110, 3955, 4747
Helminthosporium turcicum (see *Setosphaeria turcica*)
Hemileia coffeicola, coffee 674
Hemileia vastatrix
coffee 209, 674, 1047, 1048, 1049, 1978, 1979, 1980, 2496, 2497, 3053, 3528, 3871, 3872, 3873, 3874, 3879, 4311
urediospores, polysaccharides 4171
Hendersonia, Eucalyptus 2164
Herbicides
activity
Cochliobolus sativus
Poa pratensis 4344
wheat 2411
Herbicides *contd.*
activity *contd.*
Erwinia 2546
fungi, soyabeans 4543
Fusarium oxysporum f.sp. *vasinfectum,* cotton 2498, 3880
grapevines 2060
Leptosphaeria maculans, rape 2186
Macrophomina phaseolina, soyabeans 489
Phytophthora cactorum 2546
potatoes 3938
Rhizoctonia, maize 3510
Rhizoctonia solani, cotton 1986
Trichoderma harzianum 581
Ustilago maydis, maize 4674
Verticillium dahliae, cotton 1986
control, *Rhizoctonia solani,* tobacco 1640
Fusarium oxysporum f.sp. *vasinfectum,* cotton 2499
interactions
fungicides 2735
potatoes, viruses 4749
laboratory tests
Cochliobolus sativus 33
Fusarium oxysporum 3811
Fusarium oxysporum f.sp. *ciceri* 33
Sclerotium rolfsii 33
Herpotrichia herpotrichoides, nomenclature 87
Heterobasidion annosum
Abies concolor 3288, 3292
antagonists 3780
biochemistry 3780
biological control 1217, 1218
ozone 901
pines 419, 1244, 1246, 3288, 3289, 3296, 4482
Pseudotsuga menziesii 413
spruce 413, 423, 3289, 3301, 4028
toxins 4028
Heterodera glycines
epidemiology
Fusarium oxysporum 68
Fusarium solani 68
Hexachlorobenzene
residues
crops 2800
lettuce 1740
soil 2800
Hexacladium corynephorum, phyllosphere 3786
Hexanal, activity, *Botrytis cinerea* 4199
Hexathiuram, control, wheat, root rots 989
Hibiscus esculentus
Alternaria hibiscinum, Romania 2751
Aspergillus flavus, India 1859
Fusarium oxysporum f.sp. *vasinfectum,* Romania 2751
Hibiscus esculentus mosaic virus
Nigeria 2917, 3730
strains 2917
varietal reactions 3730
***Hibiscus esculentus* mosaic virus**
Hibiscus esculentus 2917, 3730
Hibiscus rosa-sinensis 2917
Sida linifolia 2917
Hibiscus rosa-sinensis
Hibiscus esculentus mosaic virus
Nigeria 2917
strains 2917
High volume spraying, apples 4355
Hilda, epidemiology, potatoes, purple top wilt 2362
Hinosan, control, *Fusarium solani* f.sp. *pisi,* peas 1694
Hippeastrum hybridum
Hippeastrum mosaic virus
Italy 2513
symptoms 2513
***Hippeastrum* mosaic virus,** *Hippeastrum hybridum* 2513
Hokkaido
Festuca pratensis, fungi 2524
Leguminosae, diseases 2703
Lolium perenne, fungi 2524
onions, *Fusarium oxysporum* f.sp. *cepae* 4562
rice
Alternaria 2461
Epicoccum purpurascens 2461
soil, *Typhula ishikariensis* 2524
Holcus mollis, brome mosaic virus, UK 2528
Holly, *Thielaviopsis basicola,* histopathology 4020
Homai, control, *Didymocladium ternatum,* mushrooms 2745
Homalodisca coagulata, bacteria, colonization 3417
Homeopathy, control, sugarcane mosaic virus, sorghum 3851
Hong Kong, *Lepidagathis hyalina, Drechslera hongkongensis* 3785
Hop latent virus
hosts 2064
relationships 1844
Hop mosaic virus
hops 3604, 3605
relationships 1844
Hop stunt viroid
characteristics 2902
cucumbers 3794
hops 726, 3606
tomatoes 3794
Hops
diseases
control 3169, 3927, 4735
German Democratic Republic 4735
UK 3169, 3927
hop mosaic virus
epidemiology 3604
UK 3605
hop stunt viroid
cell ultrastructure 726
cytology 3606
tissue culture 3606
Prunus necrotic ringspot virus, epidemiology 3604
Pseudoperonospora humuli
control 1595, 2801, 3168
environmental factors 3928
forecasting 3928
Portugal 2874
Washington 3928
Sphaerotheca macularis, control 3168
Verticillium albo-atrum
biological control 3607
control 3607
resistance 3607
virulence 3607
viruses
characteristics 2064
elimination 3167
hosts 2064
transmission 2064
UK 2064
Hordatines, laboratory tests, *Monilinia fructigena* 879
Hordeum murinum
brome streak mosaic virus
characteristics 4335
hosts 4335
wheat streak mosaic virus
German Democratic Republic 1084
transmission 1084
Hordeum vulgare (see Barley)
Hormonema dematioides, Lagenaria siceraria 2195
Hormones, *Phytophthora nicotianae* var. *parasitica* 4163
Horseradish
Arabis mosaic virus, Czechoslovakia 432
Spiroplasma citri
Illinois 3189
Maryland 3189
symptoms 3189
transmission 3190
viruses
hosts 340
relationships 340
transmission 340
Host parasite relationships
cell membranes 4110
environmental factors 1331
incompatibility 3409
lectins 2212
papillae 4264
pectins 4109
physiology 1416
reports 4644
reviews 13
Hot air treatment, control, citrus greening 204

Hot water treatment
control, guava, storage decay 1129
seed treatments
Eleusine coracana 3514
maize 4277
Pennisetum americanum 3514
rice 3857
tomatoes 3996
***Humicola fuscoatra*,** hyperparasitism, *Phytophthora megasperma* var. *sojae* 811
Humulus (see Hops)
Hungary
apples, *Libertella blepharis* 4360
blackberries, *Septocyta ruborum* 2049
Capsicum, viruses 1749
fruit, viruses 1556
Gladiolus
Fusarium 1066
Penicillium 1066
grapevines
Botrytis cinerea 314
Phomopsis viticola 1143
lettuce, *Sclerotinia minor* 4081
mushrooms, diseases 1315
potatoes, *Fusarium trichothecioides* 3211
roses, *Peronospora sparsa* 3889
soyabeans
Diaporthe phaseolorum var. *sojae* 1287
Pseudomonas syringae pv. *glycinea* 1718
stone fruits
Pseudomonas 1576
Valsa cincta 1576
strawberries, *Phytophthora cactorum* 2048
sunflowers
Alternaria zinniae 1609
Sclerotinia sclerotiorum 1609
tomatoes, viruses 3987
Ustilaginales 4193
vegetables, bacterial diseases 1678
walnuts, cherry leaf roll virus 1661
wheat, *Fusarium* 1448
HV1-60, control, rubber, diseases 1189
Hyacinths
Xanthomonas campestris pv. *hyacinthi*
breeding 2009
varietal reactions 2009
Hyalotia lateripes*, *Schoenoplectus triqueter 4353
Hydnaceae, books 70
***Hydnangium carneum*, *Eucalyptus*,** mycorrhizas 549
Hydrangea
Hydrangea ringspot virus, diagnosis 3466
tomato spotted wilt virus, diagnosis 3466
viruses, UK 1997
Hydrangea* ringspot virus, *Hydrangea 3466
Hydrogen fluoride, damage, estimation 106
Hydrogen peroxide, seed treatments, peas 451
Hydroquinones
control
potatoes, diseases 610
tomatoes, diseases 610
Erwinia amylovora 4838
Hydroxyquinoline, control, fungi, groundnuts 1295
8-Hydroxyquinoline, control, potatoes, bacterial diseases 2120
8-Hydroxyquinoline sulphate, activity, fruit trees 3099
Hylocereus undatus
cactus virus X
aetiology 3533
characterization 3533
Hymenochaetaceae, taxonomy 2887
Hymenula cerealis
enzymes 2852
sorghum 183
wheat 1449, 1898
Hymexazol
activity, *Phytophthora infestans* 4202
seed treatments, rice 193
***Hyoscyamus muticus*, *Agrobacterium tumefaciens*,** transformation 4116
Hyphochytriomycetes, nomenclature 4620
***Hyphochytrium catenoides*,** hyperparasitism, *Phytophthora megasperma* var. *sojae* 811
Hyphomycetes
books 2872
West Bengal 915, 916, 917
***Hypocrea muroiana*,** ecology 2746
***Hypocrea nigricans*,** ecology 2746
***Hypomyces rosellus*,** mushrooms 4558
***Hypoxylon atropunctatum*,** oak 3268
***Hypoxylon uniapiculatum*,** Punjab 4191
IAA
activity, mycorrhizas 4137
bacteria 857
Verticillium 572
***Iberis amara*, *Alternaria raphani*,** India 2010
IBP
activity, *Macrotyloma uniflorum* 4553
control
Fusarium solani f.sp. *pisi*, peas 1694
Pyricularia oryzae, rice 1034, 4903
rice, discoloration 1501
Idaho
barley, *Pseudomonas syringae* pv. *syringae* 3505
pines, *Cronartium coleosporioides* 4481
Ilarviruses, serological relationships 1846
Ilex (see Holly)
Illinois
horseradish, *Spiroplasma citri* 3189
maize, *Glomus clarum* 2827
Polygonum hydropiperoides, *Glomus clarum* 2827
Imazalil
control
Botryodiplodia theobromae, grapefruits 2494
Diaporthe citri, grapefruits 2494
Pezicula, apples 270
Phoma exigua var. *foveata*, potatoes 2116
Polyscytalum pustulans, potatoes 2615
potatoes, diseases 2102
seed treatments, barley 164, 1904
uptake, barley 1353
Imazalil nitrate, activity, *Ustilago avenae* 1397, 4198
Imidazoles, activity 544
***Impatiens*, *Rhizoctonia solani*,** pathogenicity 107
Impatiens balsamina
Plasmopara obducens, amino acids 4326
turnip mosaic virus, symptoms 684
Impatiens holstii
Helenium virus S
Minnesota 3070
transmission 3070
Indar
control, *Puccinia recondita*, wheat 614, 993
field tests, wheat 614
India
Acorus calamus, *Uromyces acori* 344
air spora 2765, 2876
Albizzia odoratissima, *Sphaerophragmium acaciae* 4021
Alysicarpus monilifer, *Uromyces alysicarpi* 4831
Amomum subulatum, viruses 1598
Antigonon leptopus, *Oidium antigononii* 222
apples, *Phoma violacea* 4715
Areca catechu, diseases 4407
Armillaria 1830
bananas, *Guignardia musae* 105
barley
air spora 153
Curvularia pallescens 1005
Benincasia hispida
Fusarium oxysporum 3323
Pythium aphanidermatum 3323
Berberis vulgare, *Pseudocercospora berberisvulgarae* 4624
Calendula officinalis, rosette 3885
Cannabis sativa, *Alternaria alternata* 1597
Capsicum
air spora 2750
fungi 2750, 5060
Carissa carandas, *Pestalotiopsis versicolor* 2056
Carissa spinarum, *Meliola carissae* 4626
Cassia obtusifolia, *Alternaria alternata* 1413
Catharanthus roseus, little leaf 2008
India *contd.*
Cheiranthus cheiri, *Alternaria* 1530
Cicer arietinum
Botrytis cinerea 3714
diseases 2737
Fusarium oxysporum f.sp. *ciceri* 502
Thanatephorus cucumeris 505
Uromyces ciceris-arietini 818
Cissampelos pareira, *Schizotrichella cissampelosa* 342
citrus, *Ceratocystis paradoxa* 1517
coconuts
diseases 4407
root (wilt) 348
coffee, *Phoma costarricensis* 4312
Conidiocarpus penzigi 2365
Corchorus aestuans, *Alternaria alternata* 1413
Coriandrum sativum
Macrophomina phaseolina 2576
Pythium irregulare 1599
seedborne fungi 1596
cowpeas, seedborne fungi 501
crops, diseases 2255, 4104, 4833
Croton bicolor, *Glomerella cingulata* 4626
Cucurbitaceae, *Fusarium equiseti* 2198
Cuminum cyminum, seedborne fungi 1596
Cycas circinalis
Botryodiplodia theobromae 3065
Fusarium dimerum 3065
Cymbopogon flexuosus, *Rhizoctonia solani* 1553
Cymbopogon martini var. *motia*, fungi 341
Datura metel, cucumber mosaic virus 4206
Dioscorea bulbifera, *Glomerella cingulata* 4626
Eclipta alba, *Alternaria alternata* 2585
eggplants
Sphaerotheca lanestris 1757
viruses 521
Elettaria cardamomum, mycorrhizas 57
Eucalyptus
Alternaria alternata 4778
Cladosporium herbarum 4778
Cylindrocladium 768
seedborne fungi 2654
Euphorbia geniculata, *Macrophomina phaseolina* 1420
Euphorbia lactea, *Macrophomina phaseolina* 3067
Falcourtia indica, *Pseudocercospora dovyalidis* 4625
figs, *Choanephora cucurbitarum* 3919
Foeniculum vulgare, seedborne fungi 1596
Grewia asiatica, *Sclerotium rolfsii* 289
groundnuts
Alternaria tenuissima 1299
Cochliobolus spicifer 1300
diseases 2729
groundnut mottle virus 4547
Puccinia arachidis 1723
Helichrysum bracteatum, *Cercospora helichrysi* 1532
Hibiscus esculentus, *Aspergillus flavus* 1859
Iberis amara, *Alternaria raphani* 2010
Ipomoea fistulosa, *Acrosporium* 4829
Ixia acuminata, *Macrophomina phaseolina* 1420
jute, diseases 216
Lablab purpureus
Cercospora canescens 105
mycorrhizas 57
Lagenaria siceraria, *Hormonema dematioides* 2195
Lagenaria vulgaris, *Cercospora citrullina* 105
lemons
Aureobasidium pullulans 1044
Syncephalastrum racemosum 1044
Leucaena leucocephala, *Sclerotium rolfsii* 774
lime (citrus), *Rhizoctonia solani* 4908
Litsea consimilis, *Lophodermium litseae* 586
lucerne, cucumber mosaic virus 4709
Luffa acutangula, *Synchytrium lagenariae* 4626

India *contd.*
maize
Drechslera halodes 174
seedborne fungi 4672
Trichoderma viride 173
Mentha arvensis, Fusarium oxysporum 3608
Mitragyna parvifolia, Meliola parvifoliae 4626
Mucuna deeringiana, yellow mosaic 2029
Nerium indicum, Pseudocercospora neriella 4625
Nicotiana plumbaginifolia, viruses 3733
oranges, storage decay 208
papayas, *Corynespora cassiicola* 4383
Paspalidium punctatum, Phyllachora punctum 1547
Paspalum distichum, Phyllachora paspalicola 1547
Paspalum scrobiculatum, Alternaria alternata 1924
pears, *Fusarium solani* 1859
peas, *Fusarium* 795
Pennisetum americanum
Claviceps fusiformis 4893
diseases 2451
Pyricularia penniseti 187
Sclerospora graminicola 1019
Perenniporia robiniophila 4623
Phyllanthus emblica, Phomopsis phyllanthi 3152
pigeon peas
air spora 4817
diseases 2738
pines
air spora 1672
Cercoseptoria pini-densiflorae 1247
Lophodermium kumaunicum 586
Macrophomina phaseolina 3295
Piper betle, mycorrhizas 57
Piper nigrum, mycorrhizas 57
Poa annua, Puccinia brachypodii var. *poae nemoralis* 4831
pomegranates
Beltraniella humicola 4725
Fusarium fusarioides 4726
Pseudocercospora indica 912
Pythium torulosum 2883
quarantine, soyabeans, *Peronospora manshurica* 3349
rice
Cochliobolus miyabeanus 1505
Monographella albescens 1037, 1957, 2478
Pyricularia oryzae 1029, 1033, 1942, 4289
rice tungro virus 190, 1499
soil fungi 194
Tilletia barclayana 1952
Xanthomonas campestris pv. *oryzae* 663, 1040, 1041, 1509, 1510
roses
Amerosporium circinata 1538
Phomopsis gulabia 1539
Roystonea regia, Ascochyta roystoneae 2590
sandal, spike 1231
Schizanthus wisetonensis, mycoplasmas 4706
senna, *Alternaria alternata* 4744
sesame, *Alternaria sesami* 728
Setaria verticillata, Sclerospora graminicola 1020
soil, *Pythium oligandrum* 2883
sorghum
diseases 2449
Peronosclerospora sorghi 182
Sorghum nervosum, Tolyposporium ehrenburgii 2448
soyabeans, *Aristastoma camarographioides* 2211
spice plants
diseases 4393
seedborne fungi 3929
Strychnos nux-vomica, Glomerella cingulata 1597
sugarcane
Cochliobolus lunatus 105
Stagonospora sacchari 744
tea
Armillaria mellea 3975
Exobasidium vexans 2626
Lophodermium camelliicola 586

India *contd.*
tea *contd.*
Poria hypolateritia 1201
teak, *Botryodiplodia theobromae* 105
Tephrosia purpurea, Alternaria alternata 1413
timber
Daedalea ambigua 393
Pycnoporellus fibrillosus 393
tomatoes
Myrothecium roridum 390
Phytophthora nicotianae var. *parasitica* 4444
Trachyspermum ammi, seedborne fungi 1596
trees, mycorrhizas 2293
Trichoderma pseudokoningii 2886
Tridax procumbens, Tridax mosaic virus 2251
Trigonella polycerata, Uromyces striatus 4831
Triumfetta rhomboides, Pseudocercospora triumfettigena 4625
Verbena, seedborne fungi 4334
Vernonia divergens, Oidium vernoniae 236
Vigna mungo, air spora 1733
wheat
Erysiphe graminis 4241
Puccinia 4241
Puccinia graminis 130
storage decay 1435
Tilletia indica 3828
Zepharanthes rosea 912
Zinnia, Glomerella cingulata 237
Ziziphus, Erysiphe acaciae 4626
Ziziphus jujuba, Botryodiplodia theobromae 3153
Indian mustard
Alternaria brassicae
control 3313
infection 1687
Alternaria brassicicola, infection 1687
Macrophomina phaseolina, enzyme activity 2683
Peronospora parasitica, control 4599
seedborne fungi, control 3313
Indian peanut clump virus, groundnuts 3361
Indiana
barley yellow dwarf virus 2920
cereals, barley yellow dwarf virus 689
crops, diseases 951
grasses, barley yellow dwarf virus 689
maize
Puccinia polysora 4886
Puccinia sorghi 4886
soyabeans, *Gaeumannomyces graminis* var. *graminis* 484
Indoles, activity, *Xanthomonas campestris* 1792
Indonesia
cloves, *Phyllosticta* 4395
Piper nigrum, Phytophthora 4397
Induced mutations
Agrobacterium tumefaciens 1787
alfalfa mosaic virus 944
barley 1463
Cercospora beticola 2182
Erwinia chrysanthemi 1789
Fusarium solani 3238, 3239
Monilinia laxa 4938
Pseudomonas solanacearum 3755
rice 2487
Ustilago maydis 169
Xanthomonas campestris pv. *oryzae* 4770
Inezin, control, *Fusarium solani* f.sp. *pisi,* peas 1694
Inonotus dryophilus, oak 2655
Inonotus glomeratus, trees 4008
Inonotus obliquus, Betula papyrifera 1655
Inosine, activity, *Botrytis cinerea* 1821
Insecticides
activity
barley 3832
Leptosphaeria maculans, rape 2186
control
Fusarium solani f.sp. *pisi,* peas 1694
mung bean yellow mosaic virus, *Vigna radiata* 3711
Phyllosticta, cloves 4395
potato leaf roll virus, potatoes 4970

Insecticides *contd.*
control *contd.*
rice tungro virus, rice 1932, 1933, 1934, 4684
tomato spotted wilt virus groundnut ring mosaic strain 3359
soil treatments 2719
Insects
tissue culture 3454
transmission, *Colletotrichum graminicola* 1014
Ionones, activity, Uredinales 3441
Iowa
Acaulospora, soil 2297
Gigaspora, soil 2297
Glomus, soil 2297
Ipomoea batatas (see Sweet potatoes)
Ipomoea fistulosa, *Acrosporium,* India 4829
Ipomoea obscura
witches broom
infection 1856
transmission 1856
Iprodione
control
Alternaria, kale 5011
Alternaria longipes, tobacco 1639
apricots, diseases 1112
Botrytis allii, onions 5057
Botrytis cinerea
grapevines 305, 306, 308, 313, 2062
strawberries 3137
Cochliobolus, Zizania aquatica 652
Cochliobolus sativus, Poa annua 247
melons, postharvest decay 790
Monilinia fructicola, peaches 1109
Monilinia laxa, stone fruits 4938
onions, storage decay 2748
peaches, postharvest decay 3126
Rhizoctonia cerealis, wheat 3497
Sclerotinia sclerotiorum, Actinidia chinensis 2561
Sclerotium cepivorum, onions 3385, 5056
Sphaerotheca fuliginea, cucumbers 2696
strawberries, diseases 281
fungicide tolerance
Aspergillus nidulans 3759
Botrytis cinerea 2151, 2199, 2946, 3759
Monilinia fructicola 2042
Monilinia laxa 4938
Penicillium expansum 3759
Sclerotinia fuckeliana 1794
Sclerotinia homoeocarpa 4338
laboratory tests
Cladosporium allii-cepae 1317
Cochliobolus sativus 247
seed treatments, *Brassica* 5012
Ips typographus, epidemiology, *Ceratocystis,* spruce 4780
Iran
apples, *Venturia inaequalis* 3109
cantaloupes, *Phytophthora drechsleri* 448
citrus, green spot 4300
plums, *Polystigma rubrum* 3125
rice, *Pyricularia oryzae* 3025
watermelons, *Fusarium oxysporum* f.sp. *niveum* 4503
wheat, *Mycosphaerella graminicola* 2973
Iraq
Narcissus, Sclerotinia narcissicola 1067
Nicotiana glauca, Rhizopus arrhizus 3650
oranges, soil fungi 1043
pines, damping off 1240
tulips, *Botrytis tulipae* 1078
wheat, *Puccinia recondita* 994
Ireland
barley, *Leptosphaeria nodorum* 4271
beet, diseases 3677
cereals, diseases 3478
plant pathology, reports 846
potatoes
diseases 3613
potato virus X 1168
Iris
Fusarium oxysporum f.sp. *gladioli*
fungicide tolerance 3069
Israel 3069
Italy 3069

Iris contd.
Penicillium corymbiferum
fungicide tolerance 3069
Israel 3069
Italy 3069
Rhizoctonia solani
control 4920
survival 1059
Sclerotium rolfsii, control 4920
soil fungi, biological control 4619
viruses, control 1996
Iron
Botrytis cinerea, faba beans 472
Colletotrichum musae 4381
control, *Pythium*, peas 4516
toxicity, rice 2489
Iron sulphate, control, *Elsinoë ampelina*, grapevines 4734
Irradiation, control, *Alternaria solani*, tomatoes 758
Irrigation
Calyptella campanula, tomatoes 2641
diseases
Anemone 1060
beans (*Phaseolus*) 2205
citrus 666
groundnuts 498
lemons 3813
Lolium multiflorum 4707
lucerne 2534
melons 1268
ornamentals 218
potatoes 4747
sorghum 651, 2449
vegetables 3813
wheat 999
Gibberella zeae, wheat 4877
plant disease control, reviews 4112
Isopogon ceratophyllus*, *Phytophthora cinnamomi, water relations 394
Isoprothiolane, control, *Pyricularia oryzae*, rice 1503, 2470, 3017
Isoptera, transmission, *Fusarium udum* 2742
Israel
apples, *Venturia inaequalis* 3906, 4357
Capsicum, *Xanthomonas campestris* pv. *vesicatoria* 2246
Capsicum annuum
Alternaria alternata 2245
mycorrhizas 3771
citrus, citrus tristeza virus 4301
cotton
Agrobacterium tumefaciens 1524
Fusarium oxysporum f.sp. *vasinfectum* 4647
cucumbers, *Botrytis cinerea* 2199
Cupressus, *Seiridium cardinale* 3672
Iris
Fusarium oxysporum f.sp. *gladioli* 3069
Penicillium corymbiferum 3069
maize, *Setosphaeria turcica* 4676
melons
Monosporascus eutypoides 4047
Pseudoperonospora cubensis 4048
onions
Botrytis allii 5057
mycorrhizas 3771
potatoes
Phytophthora infestans 733, 2605, 2607, 4419, 4420
potato leaf roll virus 2087, 2088
viruses 2095
stone fruits, *Monilinia laxa* 4938
watermelons, *Fusarium oxysporum* f.sp. *niveum* 4647
Italy
Actinidia chinensis, *Botrytis cinerea* 3920
almonds, *Podosphaera tridactyla* 4368
apples, *Podosphaera leucotricha* 1104
apricots, plum pox virus 3568
bacterial diseases 2779
barley, barley yellow dwarf virus 3835
blackberries
mycoplasmas 4723
viruses 4723
broccoli, mycoplasmas 4034
Capsicum
cucumber mosaic virus 4826
viruses 4567
Italy *contd.*
carnations
carnation yellow stripe virus 4697
Peronospora 3883
Catalpa, *Verticillium albo-atrum* 1664
Cattleya, *Cymbidium* mosaic virus 4700
cauliflowers, mycoplasmas 4034
celery, *Septoria apiicola* 2690
cherries, viruses 4369
chestnuts, *Cryphonectria parasitica* 1656, 3260, 3660
chicory, chicory virus X 1745
Chrysanthemum, *Puccinia horiana* 3884
Cirsium arvense, cucumber mosaic virus 4567
citrus
citrus tristeza virus 3864
diseases 2928, 3041
viruses 2904
Cupressus, *Seiridium cardinale* 1677, 4782
dunes, mycorrhizas 4145
Euphorbia pulcherrima, viruses 2015
faba beans, broad bean stain virus 471
Fatshedera lizei, *Fusarium oxysporum* f.sp. *fatshederae* 3068
forest trees, diseases 3250
Gardenia, *Phomopsis* 228
Gladiolus
mycoplasmas 3540
viruses 3540
globe artichokes
artichoke latent virus 1319
Verticillium dahliae 2242
viruses 1746
grapevines
Arabis mosaic virus 1591
Botrytis cinerea 311, 329
decline 294
diseases 2928
mal del rigato 4391
Plasmopara viticola 1138, 3923
viruses 2904, 4385
yellows 294
Hebe, *Septoria veronicae* 3541
Heliotropium europaeum, cucumber mosaic virus 4567
Hippeastrum hybridum, *Hippeastrum* mosaic virus 2513
Iris
Fusarium oxysporum f.sp. *gladioli* 3069
Penicillium corymbiferum 3069
Laurus nobilis, *Verticillium dahliae* 3058
maize, maize white line mosaic virus 1482
Melilotus neapolitania, alfalfa mosaic virus 4567
olives
Verticillium dahliae 1590
viruses 4727
Opuntia ficus-indica, *Armillaria mellea* 3151
ornamentals, diseases 4001, 4002, 4319
Pelargonium, viruses 4703
Peperomia obtusifolia, *Verticillium dahliae* 232
pines, *Cronartium flaccidum* 1673
plant diseases, legislation 2779, 2805, 2806, 2808, 2809, 2904, 2927, 3041, 3095, 3098, 3100, 3250
plant protection 2940, 2941, 2942
Platanus hybrida, *Massaria platani* 4468
plums, plum pox virus 3568
pome fruits
mycoplasmas 3100
viruses 3100, 3101
poplars, diseases 4018
potatoes
Corynebacterium michiganense pv. *sepedonicum* 1623
viruses 1162, 4412
Prunus triloba, *Chondrostereum purpureum* 3058
rice, barley yellow dwarf virus 1498
roses
Cytospora rosarum 1537
Phomopsis incarcerata 1537
safflower, diseases 3172
saffron
bean yellow mosaic virus 4743
viruses 1529
seed pathology 4218
Italy *contd.*
small fruits, viruses 3095, 3096
soyabeans, *Pseudomonas syringae* pv. *glycinea* 493
squash, watermelon mosaic virus 4792
stone fruits, viruses 3095, 3096
sunflowers, *Plasmopara halstedii* 3185
tomatoes, *Stemphylium vesicarium* 4440
trees, diseases 4011
Viburnum, *Phoma* 3058
walnuts, *Diaporthe medusae* 2659
wheat
Leptosphaeria nodorum 1893
Pseudomonas syringae pv. *atrofaciens* 3831
Puccinia 4242, 4243
Puccinia graminis 1883
Puccinia recondita 1887
Ivory Coast
bananas, *Mycosphaerella musicola* 3142
coconuts, dry bud rot 2076
cotton, phyllody 1985
Physalis angulata, pepper veinal mottle virus 838
Solanum gilo, *Stemphylium floridanum* 1151
yams, viruses 4091
Ivy
Colletotrichum trichellum
control 3071
varietal reactions 3071
Ixia acuminata*, *Macrophomina phaseolina, India 1420
Jamaica
coconuts
lethal yellowing 349
Spiroplasma 2077
pines, *Heterobasidion annosum* 1244
sugarcane, diseases 3960
Jammu and Kashmir, mushrooms, diseases 2237
Japan
Abies alba, *Gremmeniella abietina* 5001
Abies sachalinensis, *Gremmeniella abietina* 5001
beans (*Phaseolus*), *Fusarium solani* f.sp. *phaseoli* 804
beet
Ceratobasidium cornigerum 4495
Rhizoctonia 4495
Rhizoctonia solani 4785
root rots 2673
Calanthe discolor, cucumber mosaic virus 3888
Cercospora 584
Chinese cabbages, *Plasmodiophora brassicae* 2681
Chosenia, *Melampsora* 3275
Coix lachryma-jobi, *Drechslera coicis* 2452, 2453
Coniferae, *Lachnellula* 412
Coptis, *Phytophthora citrophthora* 3191
crops, diseases 7
cucumber mosaic virus, hosts 4640
cucumbers, *Pseudomonas syringae* pv. *lachrymans* 791
Cucurbitaceae, watermelon mosaic virus 2694
Dactylis glomerata, cocksfoot mottle virus 2023
Derris elliptica, *Uredo derridicola* 71
Erysiphales 2881
fungi, fungicide tolerance 2793
garlic
tobacco mosaic virus 4559
viruses 4559
ginger, *Pythium zingiberum* 2586
Gramineae, *Pyricularia* 585
Lolium multiflorum, snow mould 3085
melons
diseases 3682
Rhizopus stolonifer 2701
oak, *Coniothyrium fukelii* 2656
onions, onion yellows 2239
pears, *Diaporthe tanakae* 710
pesticides 2278, 2279
reviews 1348
pines
air pollution 4027
Cronartium ribicola 2663
Gremmeniella abietina 5001
Puccinia 72
radishes, mosaic 3310

Japan *contd.*
Rehmannia glutinosa, Phytophthora nicotianae var. *parasitica* 3192
Rhizoctonia 3787
rice
Pyricularia oryzae 2462, 2463, 2465, 2466, 2469, 3018, 4290
rice tungro virus 4896
rice waika virus 4896
Ustilaginoidea virens 2477
viruses 3853
Xanthomonas campestris pv. *oryzae* 4689
rye
snow mould 2382
Xanthomonas campestris pv. *cerealis* 646
Salix, Melampsora 3275
soyabeans
Phialophora gregata 3690
Phytophthora megasperma var. *sojae* 4811
spinach
Fusarium oxysporum f.sp. *spinaciae* 4033
viruses 2679
tea
bacteria 4762
Gloeosporium theae-sinensis 3642
Thujopsis dolabrata, Caeoma deformans 2668
tobacco
Pseudomonas syringae pv. *tabaci* 4434
tomato spotted wilt virus 753
Toisusu, Melampsora 3275
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 3989
Typhula ishikariensis 588
Uredinales 72
vegetables, bacterial diseases 2671
Vigna angularis, Phialophora gregata 3690
wheat
Hymenula cerealis 1898
snow mould 2382
yams, *Pythium sylvaticum* 527
Zinnia, Xanthomonas campestris pv. *zinniae* 2021
Jasminum, air pollution, damage 3542
Jasminum sambac, *Phyllosticta sambacae,* Rajasthan 4621
Jatropha aconitifolia* var. *papaya
Elsinoë, South America 3398
Sphaceloma, South America 3398
Java, rice, *Xanthomonas campestris* pv. *oryzae* 4298
Johnson grass (see *Sorghum halepense*)
Jordan
cereals, viruses 2380
tomatoes, viruses 3235
Juglans (see Walnuts)
Juncus articulatus, *Entorrhiza casparyana,* spore germination 2332
Junghuhnia microspora, forest trees, Argentina 2650
Juniperus
Gymnosporangium haraeanum, control 3912
Kabatina juniperi, New Jersey 1676
Juniperus chinensis
Gymnosporangium haraeanum, teliospores 3912
mycorrhizas, fertilizers 2299
Phytophthora, California 427
Juniperus chinensis* var. *globosa,
Gymnosporangium haraeanum, teliospores 3912
Juniperus chinensis* var. *kaizuka,
Gymnosporangium haraeanum, teliospores 3912
Juniperus chinensis* var. *sargentii,
Gymnosporangium haraeanum, teliospores 3912
Juniperus conferta, decline, soil water relations 3303
Juniperus sabina, *Phytophthora,* California 427
Juniperus utilis, *Gymnosporangium haraeanum,* teliospores 3912
Juniperus virginiana, *Gymnosporangium haraeanum,* teliospores 3912

Jute
Hooghly wilt
control 216
India 216
Macrophomina phaseolina
control 216, 2504
India 216
varietal reactions 4317
Kabatiella caulivora, clover 251
Kabatiella zeae, maize 3849
Kabatina juniperi, *Juniperus* 1676

Kalanchoë, *Agrobacterium tumefaciens,* tumours 1340, 3745
Kale
Alternaria
control 5011
UK 5011
Kansas, maize, maize chlorotic mottle virus 1911
Karathane
control
Alternaria ricini, Ricinus communis 2578
Erysiphe polygoni, peas 1696, 4053
Oidium, Tamarindus indica 1233
Uncinula necator, grapevines 298
Kasugamycin
control, *Pyricularia oryzae,* rice 1035
fungicide tolerance, *Pyricularia oryzae* 2468
laboratory tests, *Pseudomonas syringae* 1347
Kasumin
control
potatoes, diseases 610
tomatoes, diseases 610
Kasumin 2EC, laboratory tests, *Pseudomonas syringae* 1347
Kausamine, control, *Magnaporthe salvinii,* rice 1950
Kazakh SSR, Gramineae, Uredinales 1080
Kentucky
Alnus glutinosa, Phomopsis alnea 4473
cereals, barley yellow dwarf virus 114
Cucurbitaceae
Didymella bryoniae 446
Erysiphe cichoracearum 446
Sphaerotheca fuliginea 446
maize, *Cercospora zeae-maydis* 1918
mycorrhizas, mined sites 4603
soyabeans, bean pod mottle virus 4061
Kenya
cassava
cassava mosaic virus 522
mosaic 836
viruses 1759
coffee
Glomerella cingulata 1981, 3529
Hemileia vastatrix 1979
crops, diseases 3734
pigeon peas, diseases 2738
Kerala
coconuts, mycoplasmas 4746
Eucalyptus, diseases 4463
rice, grassy stunt 1930
Keteleeria, *Cronartium keteleeriae,* nomenclature 426
Ketones, laboratory tests, *Pestalotia* 2857
Khuskia oryzae
maize 3155
physiology 1383
Kinetin, activity, *Erysiphe graminis,* barley 4266
Kitazin
activity, *Macrotyloma uniflorum* 4553
control
Cochliobolus miyabeanus, rice 1948
Magnaporthe salvinii, rice 1950
Pyricularia oryzae, rice 1034, 4903
Kitazin P
control
Fusarium solani f.sp. *pisi,* peas 1694
Pyricularia oryzae, rice 4903
Kloeckera apiculata, grapevines 301
Kocide
control
avocados, storage decay 3589
Pseudocercospora purpurea, avocados 3587
Pseudomonas syringae pv. *syringae,* apricots 2554

Kocide 101
control
coffee, diseases 4308
Glomerella cingulata, coffee 1981, 3529
Koleroga noxius, coffee 3877
Kohlrabi, *Plasmodiophora brassicae,* varietal reactions 4786
Koleroga noxius, coffee 3877
Kolfugo 25 FW
control
Botrytis cinerea, lupins 1090
Pleiochaeta setosa, lupins 1090
Korea Republic
Capsicum, diseases 4030
cucumbers, diseases 4030
Oxalis corniculata, Oidium oxalidis 4581
Panax ginseng, Fusarium 1150
pines
Cronartium ribicola 4024
mycorrhizas 4142
poplars, mycorrhizas 4142
rice
Gaeumannomyces graminis 2460
Pyricularia oryzae 1030, 3023
Pythium 4296
soil fungi 4899
Xanthomonas campestris pv. *oryzae* 3861
sesame, *Phytophthora nicotianae* var. *parasitica* 3934
soyabeans, *Sclerotinia sclerotiorum* 488
strawberries, *Fusarium oxysporum* 1123
tobacco, *Pseudomonas solanacearum* 3985
tomatoes, diseases 4030
wheat, *Gibberella zeae* 146
Kretzschmaria clavus, *Macadamia integrifolia* 1663
Kydia, *Eriocercospora websteri,* taxonomy 2342
Kz I, control, *Alternaria ricini, Ricinus communis* 2578
Kz II, control, *Alternaria ricini, Ricinus communis* 2578
Lablab purpureus
Cercospora canescens, India 105
Colletotrichum lindemuthianum, phytoalexins 1307
Dolichos enation virus, host parasite relationships 1305
mycorrhizas
India 57
varietal reactions 57
seed treatments 2743
Trichothecium roseum, seed 819
Lac balsam, control, microorganisms, wounds 4013
Laccaria
pines, mycorrhizas 4142
poplars, mycorrhizas 4142
Laccaria laccata
Actinomycetaceae, antagonism 4848
activity
Fusarium oxysporum 3430, 3431
Pseudotsuga menziesii 3430, 3431
Pythium irregulare 3431
growth 3766
Pseudotsuga menziesii, mycorrhizas 3430, 3431
Lachnellula, Coniferae 412
Lachnellula willkommii, larch 761, 3667
Lactarius
antifungal agents, plant pathogens 881
pines, mycorrhizas 4142
Lactarius rufus, pines, mycorrhizas 1365
Lactuca saligna, cucumber mosaic virus, RNA 2923
Lactuca sativa (see Lettuce)
Laetisaria arvalis, soil 2867
Laetisaria fuciformis, lawns and turf 3081
Lagenaria siceraria
Botryodiplodia theobromae, seeds 4797
Fusarium equiseti, India 2198
Hormonema dematioides, India 2195
Synchytrium lagenariae, survival 4795
Lagenaria vulgaris, *Cercospora citrullina,* India 105
Lagerstroemia
Uncinuliella australiana
China 1394
nomenclature 1662
taxonomy 1394

Lagomorpha, control, Uredinales, pines 4479
Lantana
fungi
biological control 4578
Brazil 4578
Larch
fungi
air pollution 1219
Poland 1219
Lachnellula willkommii
Maine 3667
USA 3667
mycorrhizas, host specificity 2813
Larix (see Larch)
Lathyrus odoratus (see Sweet peas)
Lathyrus sativus, soil fungistasis 2864
Latin America, crops, diseases 4490
Latvian SSR
apples, viruses 1562
carnations, carnation mottle virus 1528
potatoes
potato leaf roll virus 1613
potato virus Y 1614
***Launaea* mosaic virus,** hosts 1407
Laurus nobilis, Verticillium dahliae, Italy 3058
Lawns and turf
Athelia fuciformis
symptoms 3081
taxonomy 3081
Corticium fuciforme
symptoms 3081
taxonomy 3081
diseases, books 2523
Laetisaria fuciformis
symptoms 3081
taxonomy 3081
Pythium, Ohio 3546
Rhizoctonia solani, pathogenicity 4337
Rhizoctonia zeae, pathogenicity 4337
Sclerotium rolfsii, control 1541
Leandria momordica, cucumbers 3686
Lebanon
cereals, viruses 2380
cucumbers, cucumber soilborne virus 3685
Leccinum, poplars, mycorrhizas 4142
Leek yellow stripe virus, leeks 510
Leeks
Endogone pisiformis, mycorrhizas, histopathology 2829
fungi, mycorrhizas 56
Glomus mosseae, mycorrhizas, carbon 49
leek yellow stripe virus
epidemiology 510
transmission 510
mycorrhizas
nutrition 4158
phosphorus 562, 4157
Puccinia porri
control 5054
UK 5054
varietal reactions 5054
Leersia oryzoides, brome mosaic virus, UK 2528
Legislation
plant diseases
Asia 1808
Australia 1807
China 626
EPPO 4601, 4602
Europe 1805, 2807, 4135
German Federal Republic 1802, 1803, 1804, 2807, 3429, 4135
information services 1809
Italy 2779, 2805, 2806, 2808, 2809, 2904, 2927, 3041, 3095, 3098, 3100, 3250
Switzerland 698
USA 1362
quarantine
EPPO 885
Europe 546
reviews 883
Taiwan 882
Leguminosae
diseases
control 2703
Hokkaido 2703
Lemons
Aureobasidium pullulans, India 1044
Lemons *contd.*
boron, toxicity, irrigation 3813
citrus tristeza virus, Italy 3864
Deuterophoma tracheiphila
pigments 4693
rootstocks 3044
varietal reactions 3044
fungi, symptoms 1514
Geotrichum candidum
control 207
susceptibility 1975
Glomerella cingulata, environmental factors 1970
Glomus intraradices, mycorrhizas, water relations 1815
greening, varietal reactions 667
Phytophthora nicotianae var. *parasitica,* control 1515
Syncephalastrum racemosum, India 1044
Lentils
Ascochyta lentis, varietal reactions 2741
Ascochyta pisi, New South Wales 845
Fusarium oxysporum f.sp. *lentis,* varietal reactions 2741
Lentinus edodes
antagonists 2746
bacteria 3384
viruses 947
Lentinus lepideus, fungicide tolerance 3305
Leonotis nepetaefolia, Diaporthe phaseolorum, infection 5035
Leonurus sibiricus, Diaporthe phaseolorum, infection 5035
Lepidagathis hyalina, Drechslera hongkongensis, Hong Kong 3785
Lepidoptera, transmission, *Ustilago violacea* 972
Leptographium
pines 4022
Pseudotsuga menziesii 4022
Leptographium gallaeciae, pines 4480
Leptographium terebrantis
pines 4022
Pseudotsuga menziesii 4022
Leptosphaeria avenaria, Canada 74
Leptosphaeria coniothyrium
raspberries 1118, 1120, 1419, 2047
roses 1074
Leptosphaeria maculans
Brassica 1, 2685, 5012, 5015
cabbages 1689
rape 2186, 2684, 5010
spore dispersal 1399
sporulation 1376
Leptosphaeria nodorum
barley 980, 1873, 2384, 4231, 4271
Canada 74
cereals 974
triticale 3487
wheat 118, 614, 629, 630, 631, 980, 1873, 1893, 2377, 2384, 2410, 2957, 2972, 2974, 3480, 3487, 3488, 3489, 4231, 4253, 4254, 4654, 4659, 4663, 4665
Leptosphaeria pratensis, lucerne 1087
Leptosphaeria taiwanensis, sugarcane 745, 2625
Leptosphaerulina crassiasca
light 2842
sporulation 2842
Leptothyrium anemones, Anemone 2875
Leptoxyphium bahiense, cotton 1992
Lespedeza cuneata
Rhizoctonia
breeding 3902, 3903
genetics 3902
tannins 3902
yield losses 3903
Lettuce
bacterial diseases, symptoms 5050
big vein
control 4554
Olpidium brassicae 4554
boron, toxicity, irrigation 3813
Botrytis cinerea, control 506
Bremia lactucae
breeding 4080, 5048
control 1865, 4557
Czechoslovakia 3381, 3721
environmental factors 1865
genetics 3382, 4080, 4556
host parasite relationships 4555
induced resistance 3814
Lettuce *contd.*
Bremia lactucae contd.
infection 5049
integrated control 5049
New York 2230
resistance 2233, 3721, 4079, 5049
spore germination 4555
testing 2233, 2234, 4079
UK 3721
varietal reactions 2234, 3382, 4080, 4557
virulence 2230, 2232, 3381, 4556
cucumber mosaic virus, hosts 3888
fungicide residues 874, 1740
Glomus mosseae, mycorrhizas, fertilizers 2824
lettuce mosaic virus
assays 3720
detection 820
methyl bromide, residues 4554
mycotoxins 1818
Pseudomonas
control 2671
Japan 2671
Pseudomonas cichorii, isolation 2235
Sclerotinia minor
control 2231
Hungary 4081
infection 4081
Sclerotinia sclerotiorum
Brazil 508
control 508
soil conditions 69
varietal resistance 1310
spring yellows virus, Florida 2181
tipburn
environmental factors 3722
Hawaii 3722
minerals 3722
viruses
breeding 5048
detection 5048
UK 2179
varietal reactions 5048
yield losses 5048
Lettuce mosaic virus, lettuce 820, 3720, 5048
Leucaena, diseases, Colombia 2521
Leucaena leucocephala, Sclerotium rolfsii, India 774
Leucaena leucophila, diseases, antifungal agents 4926
Leucostoma kunzei, larch 1219
Leveillula taurica
Capsicum 3737
cucumbers 3687
Cuscuta reflexa 1767
Duranta repens 1767
faba beans 4532
pigeon peas 2736
Libertella blepharis, apples 4360
Libya, cucumbers, *Leveillula taurica* 3687
Light
Alternaria porri 4824
Alternaria tomato 2839
Aphanomyces euteiches 4608
Arabis mosaic virus, cucumbers 5021
Cercospora zeae-maydis, maize 2999
Cochliobolus miyabeanus 2839
Cochliobolus sativus 4279
Colletotrichum truncatum 4812
Corynebacterium michiganense pv. *sepedonicum,* potatoes 4757
Erysiphe graminis, barley 160
Glomus fasciculatum, Sudan grass 58
Hemileia vastatrix, coffee 1049
Leptosphaerulina crassiasca 2842
Melampsora medusae, poplars 4016
mycorrhizas
Ageratum houstonianum 1368
Capsicum 1368, 4843
Eupatorium odoratum 4843, 4844
tomatoes 891
Mycosphaerella caricae 3147
Nectria galligena 4168
ozone
soyabeans 4223
tomatoes 4223
Phytophthora, cocoa 2375
Sclerotinia sclerotiorum 1377
Setosphaeria turcica, maize 2997
Thanatephorus cucumeris, beans (*Phaseolus*) 4525

Lilac, *Phoma,* nomenclature 4699
Lilium
diseases, control 230
tulip breaking virus, serological diagnosis 688
viruses
control 1996
eradication 4327
spread 229
Lilium longiflorum
tulip breaking virus
characteristics 2011
transmission 2011
Lilium tigrinum splendens
Arabis mosaic virus
control 3072
Netherlands 3072
transmission 3072
Lily symptomless virus
Alstroemeria 1996
relationships 1844
Lima bean (see *Phaseolus lunatus*)
Lime (citrus)
citrus tristeza virus, rootstocks 1969
fungicidal properties 3427
Pierces disease bacterium, symptoms 671
Rhizoctonia solani
control 4908
India 4908
Xanthomonas campestris pv. *citri,* control 673
Lime sulphur, control, *Elsinoë ampelina,* grapevines 2058
Lime tree (see *Tilia*)
Limonium sinuatum
mycoplasmas
Michigan 4328
symptoms 4328
Linseed, *Melampsora lini,* varietal reactions 4912
Linum usitatissimum (see Flax; Linseed)
Liquidamber styraciflua, mycorrhizas, host parasite relationships 2307
Liriodendron tulipifera, mycorrhizas, host parasite relationships 2307
Litchi chinensis, benomyl, residues 3918
Litsea consimilis, *Lophodermium litseae,* India 586
Locusts, transmission, *Colletotrichum graminicola* 1014
Lolium
Fusarium nivale, interactions 238
ryegrass mosaic virus
fertilizers 238
interactions 238
transmission 1544, 1545
yield losses 238
Lolium multiflorum
Ceratosphaeria grisea, varietal reactions 245
diseases, UK 1079
Drechslera
seeds 4341
UK 4341
Drechslera siccans, deterioration 4921
fungi
cultivation methods 4707
German Democratic Republic 4707
leaves, assessment 4343
UK 4342
yield losses 4707
oat sterile dwarf virus, electron microscopy 1081
Puccinia coronata, varietal reactions 2022
Pyrenophora dictyoides, deterioration 4921
Rhizoctonia solani, deterioration 4922
ryegrass cryptic virus, electron microscopy 1081
ryegrass mosaic virus
detection 3084
yield losses 1546
ryegrass seedborne virus, detection 3084
ryegrass spherical virus
characteristics 1542
transmission 1543
snow mould
Japan 3085
testing 3085
varietal reactions 3085
Xanthomonas campestris pv. *graminis,* Belgium 690
Lolium perenne
air pollution, testing 2526, 2527
boron, nutrition 3891
Ceratosphaeria grisea, varietal reactions 245
Claviceps purpurea, hyperparasitism 3890
diseases
control 2525
UK 1079, 2525
yield losses 2525
Drechslera
seeds 4341
UK 4341
fungi
Hokkaido 2524
leaves, assessment 4343
UK 4342
Fusarium culmorum
control 2388
environmental factors 2388
Gigaspora margarita, mycorrhizas, nutrition 560
Gloeotinia temulenta, breeding 1082
Puccinia coronata, varietal reactions 2022
ryegrass mosaic virus
detection 3084
inhibitors 4923
yield losses 1546
ryegrass seedborne virus, detection 3084
ryegrass spherical virus, transmission 1543
Sclerotinia borealis, resistance 4336
seed treatments 4924
sulphur dioxide, testing 2526, 2527
Typhula ishikariensis, resistance 4336
Xanthomonas campestris pv. *graminis,* Belgium 690
Lonicera morowii, *Microsphaera,* taxonomy 2339
Lophodermella arcuata, pines 418
Lophodermium agathidis, *Agathis australis* 4195
Lophodermium camelliicola, tea 586
Lophodermium kumaunicum, pines 586
Lophodermium litseae, *Litsea consimilis* 586
Lophodermium pinastri, pines 422, 1670, 4485
Lophodermium seditiosum, pines 422, 2646, 4485
Loquats, bacteria, freezing 1783
Lotus corniculatus
mineral deficiencies, boron 4712
Pseudomonas viridiflava, aetiology 4928
Louisiana, *Eichhornia crassipes, Aquathanatephorus pendulus* 528
Low volume spraying, apples 4355
LS 74783, control, *Phytophthora fragariae,* strawberries 1125
Lucerne
alfalfa mosaic virus
Australian Capital Territory 694
characteristics 2025
China 2025
detection 4859
hosts 2025
New South Wales 694
transmission 694
USA 3090
Calonectria crotalariae, Hawaii 258
Colletotrichum trifolii
inoculation 255
races 250, 257
resistance 255
testing 255
Corynebacterium michiganense pv. *insidiosum*
biochemistry 696
Czechoslovakia 2534
irrigation 2534
selection responses 693
cucumber mosaic virus, India 4709
Cylindrocladium clavatum, Hawaii 258
diseases
Alberta 1089
Australia 253
breeding 3899
Egypt 3549, 4348
environmental factors 1088
identification 1087
keys 1087
Lucerne *contd.*
diseases *contd.*
New Zealand 1088
varietal reactions 1088
dwarf
Uzbek SSR 4708
vectors 4708
fungi, Alberta 4710
Fusarium
pathogenicity 4931
sources 4931
UK 4931
Fusarium oxysporum
nodulation 4350
soil 4350
Fusarium oxysporum f.sp. *medicaginis*
breeding 3900
genetics 3900
soil water potential 3092
USA 2028
varietal reactions 2028, 3092
virulence 2028
mineral deficiencies
boron 3898
diagnosis 3901
manganese, diagnosis 3897
molybdenum, diagnosis 3897
Nectria radicicola, UK 4931
pea streak virus
transmission 3089
USA 3090
Phoma medicaginis, UK 4931
Phytophthora megasperma
morphology 2890
pathogenicity 4930
varietal reactions 4930
Phytophthora megasperma f.sp. *medicaginis*
medicarpin 4351
Mexico 2027
varietal reactions 2027
Wyoming 3091
yield losses 3091
Pleospora herbarum, breeding 2536
Pseudomonas viridiflava, aetiology 4928
Pseudopeziza medicaginis
Austria 3896
growth 256
Pseudopeziza medicaginis f.sp. *sativae,* growth 256
Verticillium albo-atrum
Czechoslovakia 2534
hosts 695, 968
irrigation 2534
phytoalexins 254
seed testing 2026
selection responses 693
strains 2535
UK 4931
Washington 2026
Wyoming 695
Lucerne transient streak virus
Chenopodium amaranticolor 4349
RNA 969, 4349, 4636
Luffa acutangula
Pseudoperonospora cubensis
host parasite relationships 4796
pollen 3320
Synchytrium lagenariae, India 4626
Lupins
bacterial diseases
German Democratic Republic 4711
testing 2781
Botrytis cinerea, control 1090
diseases, Western Australia 2537
Erysiphe polygoni
resistance 4932
varietal reactions 4932
Fusarium oxysporum f.sp. *lupini*
races 4352
varietal reactions 4352
groundnut mottle virus
epidemiology 3093
yield losses 3093
Phomopsis leptostromiformis
seed testing 259
South Australia 259
Phytophthora cinnamomi, survival 2871
Pleiochaeta setosa, control 1090
Lycopersicon cheesmanii, tomato yellow leaf curl virus, resistance 1207, 1209
Lycopersicon esculentum (see Tomatoes)

Lycopersicon hirsutum, tomato yellow leaf curl virus, resistance 1207, 1209
Lycopersicon peruvianum, tomato yellow leaf curl virus, resistance 1207, 1209
Lycopersicon pimpinellifolium, tomato yellow leaf curl virus, resistance 1207, 1209
Lyophyllum aggregatum, chestnuts, mycorrhizas 3432
M-special, foliar uptake 876
M 9834, control, *Pseudoperonospora humuli,* hops 1595
Macadamia integrifolia, *Kretzschmaria clavus,* morphology 1663
Machinery, transmission, *Phoma exigua* var. *foveata,* potatoes 2114
Macrophoma
apples 2548, 3909
peaches 4939
Macrophoma mangiferae, mangoes 1585
Macrophomina, maize 2992
Macrophomina phaseolina
beans (*Phaseolus*) 803, 2205, 3736
Cicer arietinum 2224, 2737, 4818, 4819, 4820
clover 2532, 2533
Coriandrum sativum 2576
cotton 1521
enzymes 902
Euphorbia geniculata 1420
Euphorbia lactea 3067
fungicide tolerance 1354
groundnuts 2729, 3365, 3371, 4072
Indian mustard 2683
inhibition, *Nocardia salmonicolor* 38
Ixia acuminata 1420
jute 2504, 4317
laboratory tests, fungicides 4891
lucerne 3549
melons 3325, 4799
peas 454
physiology 1388
pines 1240, 3295
potatoes 3736
radishes 4040
safflower 1605
sesame 2068
soil 66, 4187
sorghum 651, 2449, 4891
soyabeans 489
sporulation 1388
sunflowers 1148, 3183
Vigna mungo 1308
Macroposthonia ornata, interactions, *Phytophthora megasperma* var. *sojae,* soyabeans 1711
Macrosiphum euphorbiae
transmission
alfalfa mosaic virus 4567
cucumber mosaic virus 4567
potato leaf roll virus 4970
Macrosteles fascifrons
transmission
aster yellows 4919
mycoplasmas, *Limonium sinuatum* 4328
Spiroplasma citri 3190
Macrosteles orientalis, transmission, onion yellows 2239
Macrotyloma uniflorum, fungicides, activity 4553
Madeira, Sclerotiniaceae 914
Madhya Pradesh
Cicer arietinum, Alternaria 3716
Dalbergia sissoo, fungi 4452
Prosopis juliflora, fungi 4452
soil, fungi 2863, 4452
Magnaporthe grisea, *Eleusine coracana* 2457
Magnaporthe salvinii
rice 662, 1936, 1950, 1951, 3028
soil 1951
Magnesium
activity, *Xanthomonas campestris* pv. *vesicatoria, Capsicum* 4572
control, *Botrytis cinerea,* grapevines 302
Magnolia acuminata, *Microsphaera,* taxonomy 2339
Maharashtra
groundnuts, fungi 1724, 1725
pigeon peas, diseases 2736
Mahonia fortunei, *Cercospora ogawae,* Japan 584
Maine, larch, *Lachnellula willkommii* 3667
Maize
Acremonium, seed 4679
Aspergillus
aflatoxins 1428
incidence 1428
barley yellow dwarf virus
detection 1426
France 1481
transmission 1424
breeding, conferences 4883
brome mosaic virus, hosts 977
Cercospora zeae-maydis
cultures 2999
environmental factors 1918
epidemiology 1916
Kentucky 1918
North Carolina 1916
sporulation 2999
survival 1916
Cochliobolus carbonum
genetics 1018
host parasite relationships 1016, 1017, 3508
toxins 4889
Cochliobolus heterostrophus
control 4599
cultural methods 4888
deterioration 4921
epidemiology 4888
fertilizers 1487
genetics 3847, 3848, 4673
host parasite relationships 648, 1484, 3508
interactions 1478, 3846
pathogenicity 3847
toxins 1484, 1486, 2443, 2996
Cochliobolus lunatus, Uttar Pradesh 1915
Cochliobolus sativus, physiology 4279
Colletotrichum graminicola
characteristics 1418
host parasite relationships 648
Ohio 1917
survival 1917
transmission 1014
cucumber mosaic virus, hosts 3888
dazomet 4650
diethylaminoethanol, damage 2368
Diplodia maydis
insects 1015
USA 4885
virulence 4885
diseases
books 166
conferences 4883
control 2954
environmental factors 3477
Georgia 2991
Nigeria 1479, 2992
Reunion 3405
reviews 1010
Drechslera halodes, India 174
Erwinia chrysanthemi
fertilizers 1491
Malaysia 177
varietal reactions 177
Erwinia stewartii
breeding 1490
isolation 3511
fungicides
residues 1009
translocation 1009
Fusarium
Bulgaria 4643
cytology 2446
mycotoxins 4677
Ontario 4677
resistance 3844
sources 4278
toxicity 2446
zearalenone 4225, 4653
Fusarium crookwellense, geographical distribution 1831
Fusarium culmorum, symptoms 1913
Gibberella fujikuroi
seed testing 2444
seed treatments 4277
symptoms 1913
Gibberella fujikuroi var. *subglutinans,* hosts 2054
Gibberella zeae
breeding 2998
Maize *contd.*
Gibberella zeae contd.
estimation 1013
genetics 2998
symptoms 1913
zearalenone 1488, 1914
Gigaspora gigantea, infection 54
Glomus, mycorrhizas, host parasite relationships 3774
Glomus fasciculatus, mycorrhizas, inoculum 1814
Glomus mosseae
mycorrhizas
fertilizers 893
inoculum 1814
Kabatiella zeae, yield losses 3849
Khuskia oryzae
control 3155
inoculation 3155
maize chlorotic dwarf virus, transmission 4671
maize chlorotic mottle virus
Kansas 1911
reviews 1911
maize chlorotic vein banding virus, ultrastructure 168
maize dwarf mosaic virus
crop loss 167
genetics 647
interactions 1478, 3846
Pennsylvania 167
sources 3506
spread 3506
yield losses 1909
maize rayado fino virus
characteristics 1480
USA 1480
maize streak virus
Africa 1910
hosts 4884
susceptibility 4884
varietal reactions 1910
maize white line mosaic virus
detection 3507
incidence 3507
Italy 1482
symptoms 3507
mycorrhizas, environmental factors 3439
Mycosphaerella zeae-maydis
epidemiology 4678
genetics 4673
transmission 4678
Peronosclerospora maydis
environmental factors 2442
infection 2442
Peronosclerospora sacchari, environmental factors 1485
Peronosclerospora sorghi
genetics 170
inoculation 649
oospores 1011
resistance 2995
sources 4649
Thailand 2995
varietal reactions 649
Phoma americana, USA 2389
Physopella zeae, development 1489
Phytophthora cinnamomi, callose 172
Pseudomonas syringae pv. *coronafaciens,* Minnesota 176
Pseudomonas syringae pv. *syringae*
mitochondria 175
toxins 175
Puccinia polysora, Indiana 4886
Puccinia sorghi
Indiana 4886
resistance 3845
taxonomy 4886
varietal reactions 2439, 3845
yield losses 2439
Pythium, control 2445
Rhizoctonia, interactions 3510
rhizosphere, microflora, urea 2993
rice ragged stunt virus, purification 3853
seed treatments 1912
seedborne fungi
crop loss 171
environmental factors 4672
host parasite relationships 2438
India 4672
Zambia 171
Setosphaeria turcica
environmental factors 4676

Maize *contd.*
Setosphaeria turcica contd.
estimation 1012
genetics 650, 3509
host parasite relationships 1484
Israel 4676
leaf area 1012
spore germination 2997
testing 3509
toxins 1484
varietal reactions 650, 4676
Sphacelotheca reiliana
environmental factors 4887
varietal reactions 4887
stem breaking, resistance 3844
Stenocarpella macrospora
USA 4885
virulence 4885
storage decay 1912
stunt
detection 2437
Spiroplasma 2437
relationships 4217
stomatal resistance 3468
sugarcane mosaic virus, nitrogen metabolism 1483
Trichoderma viride
India 173
symptoms 173
tridemorph, biochemistry 2994
Ustilago maydis
environmental factors 4674
fertilizers 2440
galls (plant) 169
herbicides 4674
induced mutations 169
New South Wales 2441
Queensland 2441, 4276
Singapore 2880
varietal reactions 4675
zinc, foliar uptake 876
Maize chlorotic dwarf virus
maize 4671
Sorghum halepense 3506
Maize chlorotic mottle virus, maize 1911
Maize chlorotic vein banding virus, maize 168
Maize dwarf mosaic virus
maize 167, 647, 1478, 1909, 3506, 3846
sorghum 179, 2447, 3850, 4890
Sorghum halepense 3506
strains 4860
transmission 4860
Maize rayado fino virus, maize 1480
Maize rough dwarf virus, barley 3834
Maize streak virus
maize 1479, 1910, 2992, 4884
sugarcane 1194
Maize white line mosaic virus, maize 1482, 3507
Malawi
pigeon peas, diseases 2738
tobacco, tobacco bushy-top virus 3979
Malaysia
Bouganvillea spectabilis, Stenella bougainvilleae 918
forest trees, *Cylindrocladium scoparium* 395
maize, *Erwinia chrysanthemi* 177
Peristrophe acuminata, Semipseudocercospora peristrophes-acuminatae 4622
plant protection 1779
rice
rice gall dwarf virus 191
rice tungro virus 4288
rubber, diseases 1189, 2128
sugarcane, sugarcane Fiji disease virus 5
Vigna radiata, diseases 1304
Maleic hydrazide, *Verticillium* 572
Malus
Podosphaera leucotricha, resistance 1563
Venturia inaequalis, resistance 1563
Malus pumila (see Apples)
Mancoper, control, *Alternaria ricini, Ricinus communis* 2578
Mancozeb
activity
mustard, fungi 2688
tomatoes 2635
yams 3732
Mancozeb *contd.*
control
Actinidia chinensis, storage decay 1132
Albugo candida, radishes 4040
Alternaria alternata
Anigozanthos 221
passion fruit 1589
Alternaria cucumerina, cantaloupes 3321
Alternaria helianthi, sunflowers 3181
Alternaria ricini, Ricinus communis 2578
Alternaria solani, tomatoes 1210
apricots, diseases 1112
Aspergillus niger, groundnuts 3365
Bremia lactucae, lettuce 4557
Cochliobolus, Zizania aquatica 652
Cochliobolus miyabeanus, rice 1948
Colletotrichum lagenarium, watermelons 3319
Colletotrichum lindemuthianum, beans (*Phaseolus*) 4522
Colletotrichum trichellum, ivy 3071
Corynespora cassiicola, papayas 4383
Diaporthe citri, citrus 4691
Didymocladium ternatum, mushrooms 2745
faba beans, diseases 4531
Fulvia fulva, tomatoes 2638
groundnuts, diseases 3284, 5041
Guignardia bidwellii, grapevines 334
Macrophomina phaseolina, groundnuts 3365
Monilinia, cherries 1578
Monographella albescens, rice 2478
mushrooms, diseases 2237
Mycosphaerella, groundnuts 4070
Peronospora parasitica, radishes 4040
Peronospora sparsa, boysenberry 4377
Peronospora tabacina, tobacco 1636
Phoma microspora, groundnuts 3369
Phomopsis phyllanthi, Phyllanthus emblica 3152
Phyllosticta, cloves 4395
Phyllosticta musarum, bananas 4379
Phytophthora cactorum, apples 3907
Phytophthora infestans
potatoes 3949
tomatoes 1213
Phytophthora palmivora, aranda 4701
Plasmopara viticola, grapevines 3601
Pleiochaeta setosa, lupins 1090
potatoes, diseases 4972
Pseudomonas cichorii, Pelargonium 3543
Pseudomonas syringae pv. *tomato,* tomatoes 4446
Puccinia, sugarcane 2625
Puccinia arachidis, groundnuts 494, 4070
Puccinia helianthi, sunflowers 1149, 3182
Puccinia recondita, wheat 3826
radishes
diseases 1254
seedborne fungi 4040
rice, discoloration 1501
Sclerotinia sclerotiorum, Papaver somniferum 2577
Sclerotinia squamosa, onions 2240
Septoria apiicola, celery 2690
Septoria lycopersici, tomatoes 1210
sesame, diseases 3178
strawberries, diseases 3136
tomatoes, diseases 2156
Uromyces viciae-fabae, faba beans 4808
Xanthomonas campestris pv. *vesicatoria*
Capsicum 1752, 5061
tomatoes 2156
yams, diseases 3732
fungicide tolerance
Cochliobolus miyabeanus 4900
Cochliobolus sativus 4900
plant pathogens 873, 3424
laboratory tests
Aspergillus alternata 4069
Phytophthora palmivora 3815
plant pathogens 4599
Pseudomonas syringae 1347
Sclerotium rolfsii 4084
Valsa cincta 1347
Mancozeb *contd.*
phytotoxicity
grapevines 2570
sesame 727
residues, crops 874
seed treatments
barley 1905
groundnuts 2938
jute 2504
marrows 4504
rice 1948
sesame 2938
sunflowers 2938
Vigna radiata 503
wheat 990
Zinnia 237
Maneb
control
Alternaria crassa, Datura candida 1152
Alternaria ricini, Ricinus communis 2578
Alternaria solani, potatoes 1619
Botrytis tulipae, tulips 1078
Deuterophoma tracheiphila, citrus 3043
Erysiphe graminis, barley 151
Fulvia fulva, tomatoes 2638
grapevines, diseases 2058
Peronospora sparsa, roses 1073
Phyllosticta, cloves 4395
Phyllosticta musarum, bananas 4379
Piper nigrum, black berry 1145
Pseudomonas syringae pv. *tomato,* tomatoes 3996, 4446
Rhabdocline pseudotsugae, Pseudotsuga menziesii 776
Septoria, wheat 2392
tomatoes, diseases 2156
Uromyces viciae-fabae, faba beans 4808
Xanthomonas campestris pv. *vesicatoria,* tomatoes 2156
laboratory tests, *Cladosporium allii-cepae* 1317
phytotoxicity, grapevines 2570
residues, crops 874
seed treatments, marrows 4504
soil treatments 1268
Manganese
control, mushrooms, diseases 1314
deficiencies
forage legumes 3897
soyabeans 5039
Mangoes
Alternaria alternata
control 4955
estimation 4955
Botryodiplodia theobromae, environmental factors 1585
diseases
Reunion 722
reviews 2052
Macrophoma mangiferae, environmental factors 1585
malformation
growth regulators 3145
reviews 286
postharvest decay
control 1584
fungicide tolerance 1584
Manihot carthaginensis
Elsinoë, South America 3398
Sphaceloma, South America 3398
Manihot utilissima (see Cassava)
Manipur
rice, *Pyricularia oryzae* 1941
wheat, *Puccinia* 2395
Manitoba
fungi 4194
rape, diseases 1252
Mannoxol OT, wetters 4497
Manzate D
control
Alternaria solani, potatoes 1619
Piper nigrum, black berry 1145
Market gardens, crops, diseases, France 3737
Marrows
cucumber mosaic virus, resistance 5020
Didymella bryoniae, control 4504
viruses, resistance 3674
Marssonina brunnea, poplars 4011

***Marssonina populi*, poplars 4018**
***Marssonina rosae*, roses 686**
Martinique, crops, diseases 3735, 3736
Maryland
Agrostis palustris, Gaeumannomyces graminis var. *avenae* 3547
horseradish, *Spiroplasma citri* 3189
soyabeans, *Sclerotinia* 5066
Xanthium pensylvanicum, Sclerotinia 5066
***Massaria platani*, *Platanus hybrida* 4468**
Mastigomycotina
control 4620
taxonomy 4620
viruses 4620
***Mauginiella scaettae*, date palms 1155, 2588**
Mauritius
plant diseases 4102
sugarcane, diseases 1192
MBC (see Carbendazim)
MDPX, control, *Ceratocystis paradoxa*, sugarcane 2131
Medicago sativa (see Lucerne)
Medicarpin, activity, *Phytophthora megasperma* f.sp. *medicaginis* 4351
Medicinal plants, diseases, German Democratic Republic 3170
Mediterranean countries
citrus, *Deuterophoma tracheiphila* 4692
plant protection 2941
watermelon mosaic virus 4792
***Megasporoporia*, taxonomy 1220**
Meghalaya
forest trees, *Rhizoctonia solani* 3253
Nepenthes khasiana, Glomerella cingulata 4830
***Melaleuca leucadendron*, fungicidal properties 4130**
Melampsora
Chosenia 3275
Salix 3275
Toisusu 3275
***Melampsora amygdalinae*, *Salix triandra* 1229**
***Melampsora dimorphospora*, *Salix koriyanagi* 3275**
***Melampsora farlowii*, CMI distribution maps 950**
***Melampsora kamikotica*, *Chosenia arbutifolia* 3275**
Melampsora larici-populina
Cladosporium, hyperparasitism 772
Cladosporium tenuissimum, hyperparasitism 4017
cultures 411
poplars 407, 408, 409, 410, 772, 1660, 3273, 4017, 4018
Melampsora lini
flax 2503, 4316
linseed 4912
Melampsora medusae
CMI distribution maps 950
poplars 2168, 3272, 3274, 4016, 4470
Melampsora populnea
pines 2665
poplars 104
***Melampsorella caryophyllacearum*, *Abies sibirica* 415**
Melampsoridium
classification 76
hosts 76
Melanconiaceae, Spain 919
***Melia azadirachtae*, fungicidal properties 1936**
Melilotus alba
Colletotrichum trifolii, races 250
tobacco streak virus, hosts 1402
***Melilotus neapolitania*, alfalfa mosaic virus, Italy 4567**
***Melinis minutiflora*, inhibition, *Sclerotinia sclerotiorum*, soil 69**
Meliola
oranges 208
Spiropes guareicola, hyperparasitism 208
***Meliola carissae*, *Carissa spinarum* 4626**
***Meliola parvifoliae*, *Mitragyna parvifolia* 4626**
Meliosma myriantha
Aecidium meliosmae-pungentis, taxonomy 3280
Phakopsora meliosmae, taxonomy 3280
***Melochia corchorifolia*, *Phoma exigua*, Andhra Pradesh 1766**
***Meloderma richeae*, *Richea continentis* 4195**
Meloidogyne incognita
interactions
Agrobacterium tumefaciens 1524
Cylindrocladium crotalariae, soyabeans 3345
Fusarium oxysporum f.sp. *cucumerinum*, cucumbers 4506
Fusarium oxysporum f.sp. *lycopersici* 3990
Fusarium oxysporum f.sp. *vasinfectum* 1052, 2500
Pseudomonas solanacearum 1214
tobacco mosaic virus, tobacco 4428
Meloidogyne javanica
interactions
Fusarium oxysporum 1270
Fusarium solani 1270
Melons
Colletotrichum lagenarium
enzymes 1267
ethylene 1267
induced resistance 1266
cucumber mosaic virus
breeding 4793
France 4793
hosts 3888
integrated control 4793
serological diagnosis 1250
transmission 595, 1261, 4793
diseases
breeding 3682
control 1268
Japan 3682
Senegal 1793
Turkey 1268
Erwinia tracheiphila, inoculation 450
Erysiphe cichoracearum, varietal reactions 788, 2700
Fusarium equiseti, India 2198
Fusarium oxysporum f.sp. *melonis*, control 4508
Macrophomina phaseolina
physiology 4799
transmission 3325
Monosporascus eutypoides, Israel 4047
postharvest decay, control 790
Pseudoperonospora cubensis
fungicide tolerance 2699
Israel 4048
varietal reactions 788, 4048
Rhizopus stolonifer, Japan 2701
Sphaerotheca fuliginea, varietal reactions 788, 2700
squash mosaic virus, Morocco 1690
viruses
China 2691
resistance 3674
watermelon mosaic virus
China 4045
control 786
detection 4045
Western Australia 786
Mentha
Puccinia menthae
New Zealand 1600
races 1600
spread 1600
Mentha arvensis
fungicidal properties 3427
Fusarium oxysporum, India 3608
Mentha piperita (see Peppermint)
Mepronil
degradation 2798
metabolism, rice 3005
Merculine, control, *Sclerotium rolfsii, Piper betle* 3933
Mercuric chloride
activity, *Abies concolor* 3292
control, *Fusarium*, garlic 3389
fungicide tolerance, *Fusarium oxysporum* f.sp. *lycopersici* 1350
Mercuric oxide, control, microorganisms, wounds 4013
Mercury
seed treatments
melons 1268
wheat 2978
***Meria laricis*, larch 2646**
Mertect, activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
Mertect LSP, seed treatments, wheat 2969
Metalaxyl
activity 2281
Erysiphe cichoracearum 4768
Peronosporales 2801
Phytophthora 1355
Phytophthora cinnamomi, soil 4847
Pythium 1355
assays 1801
control
Albugo occidentalis, spinach 3678
Bremia lactucae, lettuce 4557
grapevines, diseases 4387
Guignardia bidwellii, grapevines 334
Peronospora arborescens, Papaver somniferum 3932
Peronospora destructor, onions 3723
Peronospora farinosa, spinach 3678
Peronospora parasitica, Chinese cabbages 3314
Peronospora sparsa
boysenberry 4377
roses 3889
Peronospora tabacina, tobacco 755, 1636, 2139, 3648
Pezicula malicorticis, apples 3551
Phytophthora, Calceolaria 1062
Phytophthora cactorum
apples 3907
strawberries 3915
Phytophthora cinnamomi
Abies fraseri 4476
avocados 1583, 3593, 4948, 4949, 4950, 4951, 4953
Phytophthora infestans, potatoes 362, 734, 2602
Phytophthora megakarya, cocoa 612
Phytophthora megasperma f.sp. *glycinea*, soyabeans 1288, 1713
Phytophthora nicotianae var. *nicotianae*, tobacco 750, 3230
Phytophthora nicotianae var. *parasitica*
oranges 3045
Piper betle 4962
Phytophthora palmivora
aranda 4701
cocoa 1869, 2948, 3475
Piper nigrum 3171
Phytophthora syringae, apples 3563
Plasmopara halstedii, sunflowers 4399
Plasmopara viticola, grapevines 295, 296, 1137, 1138, 3601
potatoes, diseases 4972
Pseudoperonospora humuli, hops 1595, 3927
Pythium splendens, Schefflera actinophylla 3545
Sclerospora graminicola, Pennisetum americanum 1923
fungicide tolerance
Peronospora farinosa 3678
Peronospora tabacina 1636, 2139
Phytophthora infestans 871, 974, 1161, 1174, 2107, 3613, 3950, 4596
Phytophthora megasperma 32
plant pathogens 3424, 3425
Plasmopara viticola 4387
Pseudoperonospora cubensis 2699
laboratory tests, *Phytophthora megasperma* f.sp. *medicaginis* 3426
persistence, soil 4129
seed treatments
Brassica 5014
Cicer arietinum 2225
peas 453
soyabeans 4065
soil treatments 877, 1515, 1564, 2281, 2512, 4476
translocation, potatoes 2602
uptake, soyabeans 492
***Metarhizium*, soil 1826**
Metham-sodium
control
Sclerotinia minor, lettuce 2231
Sclerotium rolfsii, Piper betle 3933
wood destroying fungi 3305
soil treatments 389, 3236, 3245, 3704, 4374
Methfuroxam, control, *Rhizoctonia solani*, cotton 1991

Methomyl, seed treatments, *Crotalaria juncea* 680
Methoxyethyl-mercury chloride
activity, *Pythium butleri* 2735
control
Ceratocystis paradoxa, sugarcane 3218
Cicer, storage decay 5045
damping off, cowpeas 2735
radishes, diseases 1688
Sclerotium rolfsii, groundnuts 495
laboratory tests
Curvularia eragrostidis 3917
Fusarium solani 504
Rhizoctonia solani 504
Sclerotium rolfsii 504
seed treatments
barley 2431
cotton 908, 1521
cowpeas 908
Methyl bromide
damage, grapevines 3598
laboratory tests, sclerotia 875
residues
lettuce 4554
soil 4554
soil treatments 280, 389, 1527, 2817, 3072, 3236, 3823, 3829, 4185, 4554, 5014
Methyl isothiocyanate
control, wood destroying fungi 3305
soil treatments 3236, 3245, 4508
Methyl propanate, control, *Pleiochaeta setosa,* lupins 1090
Methyl thiosulphanate, control, apricots, diseases 1112
Methylene blue, laboratory tests, bacteria, tea 4762
Metiram
control
apricots, diseases 1112
Ceratocystis fimbriata, coffee 3876
foliar uptake 876
soil treatments 65
Metopolophium dirhodum, transmission, barley yellow dwarf virus 1498, 4868
Metrosideros collina, *Diaporthopsis metrosideri,* Hawaii 3278
Mexico
Acaulospora foveata 51
coffee, *Hemileia vastatrix* 3528
lucerne, *Phytophthora megasperma* f.sp. *medicaginis* 2027
sorghum, *Hymenula cerealis* 183
triticale, *Puccinia graminis* 991
Uredinales, books 1391, 1392
wheat, *Puccinia graminis* 991, 1881
Michigan
Limonium sinuatum, mycoplasmas 4328
Pseudotsuga menziesii, Rhabdocline 4486
Miconazole, activity, *Ustilago maydis* 4132
Microbotryum violaceum, taxonomy 913
Microcyclus ulei, rubber 8, 739
Microdochium bolleyi, rye 3843
Microorganisms, leaves, reviews 2261
Microsphaera
hosts 79
taxonomy 79
trees 1652
Microsphaera alni, *Platanus racemosa* 3453
Microsphaera alphitoides, oak 2646, 3664
Microsphaera friesii* var. *dahurica, *Rhamnus dahurica* 2339
Microsphaera magnifica, *Magnolia acuminata* 2339
Microsphaera miura, *Lonicera morowii* 2339
Microsphaera neglecta, elms 2339
Microsphaera neomexicana, *Forestiera neomexicana* 2339
Microsphaera ornata* var. *europaea, *Betula pubescens* 2339
Microsphaera penicillata* var. *ludens, faba beans 1269
Microsphaera platani, *Platanus* 4469
Microsphaeropsis olivacea, antagonism, *Venturia inaequalis* 3110
Microstroma juglandis, walnuts 2646
Microthyrium amygdalinum, *Eucalyptus* 2164
Middle East
faba beans, viruses 4533
plant diseases 2371
Mikal, control, onions, storage decay 2748
Milfuram
control
grapevines, diseases 4387
Guignardia bidwellii, grapevines 334
Plasmopara viticola, grapevines 295, 1137, 3601
fungicide tolerance
plant pathogens 3424
Plasmopara viticola 4387
Milk, antiviral properties 4437
Millettia, Hapalophragmium nsukkaensis, Nigeria 2933
Milstem, seed treatments, barley 151
Mimosa claussenii, mycorrhizas, Brazil 3435
Mimosine, activity, fungi 4926
Mimulus guttatus, copper, toxicity, genetics 4329, 4330
Mined sites, mycorrhizas 4603
Mineral deficiencies
boron
apples 3553
books 4850
clover 3898
Lotus corniculatus 4712
lucerne 3898, 3901
pears 3553
copper, clover 1554, 1555
manganese
forage legumes 3897
soyabeans 5039
molybdenum
barley 4236
clementines 3052
forage legumes 3897
soyabeans 5039
wheat 4236
potassium, grapevines 4391
sugarcane 2135
zinc, beans (*Phaseolus*) 4057
Mineral oils
control
Capsicum, viruses 2243
potatoes, viruses 4412
Minnesota
Gleditsia triacanthos, Nectria cinnabarina 773
Impatiens holstii, Helenium virus S 3070
maize, *Pseudomonas syringae* pv. *coronafaciens* 176
Zizania aquatica
Drechslera gigantea 249
Pseudomonas syringae 4286
Xanthomonas campestris 4286
Mirabilis jalapa, plant extracts, antiviral agents 3456
***Mirabilis* mosaic virus,** DNA 1850
Mississippi
bamboos, *Puccinia melanocephala* 3219
clover, *Sclerotinia trifoliorum* 692
soyabeans
Diaporthe 3344
fungi 2725
Phomopsis 3344
sugarcane, *Puccinia melanocephala* 3219
Missouri, *Festuca arundinacea, Gibberella gordonia* 243
Mitragyna parvifolia, *Meliola parvifoliae,* India 4626
MK-23
control
Glomerella cingulata, coffee 1981
Piper nigrum, black berry 1145
MKF-674
control
Erysiphe graminis 878
Puccinia 878
Molybdenum
control, *Aphanomyces euteiches,* peas 1271
deficiencies
barley 4236
clementines 3052
forage legumes 3897
soyabeans 5039
wheat 4236
Momordica charantia, *Fusarium oxysporum* f.sp. *momordicae,* Taiwan 3322
Monilinia
cherries 1578
peaches 3126
taxonomy 3133
Monilinia baccarum, *Vaccinium myrtilis* 3133
Monilinia fructicola, peaches 1108, 1109, 1572, 1573, 2041, 2042, 3572, 4367
Monilinia fructigena
apples 4644
ozone, responses 1374
pears 3551
Monilinia laxa
cherries 712
fungicide tolerance 4938
fungicides, evaluation 31
mutants 4938
stone fruits 4938
Monilinia ledi
Ledum palustre 3133
Vaccinium uliginosum 3133
Monilinia megalospora, *Vaccinium uliginosum* 3133
Monilinia oxycocci
Vaccinium macrocarpon 3133
Vaccinium oxycoccos 3133
Monilinia polycodii, *Vaccinium stamineum* 3133
***Monilinia* taxonomic species 1,** *Gaylussacia baccata* 3133
Monilinia urnula, *Vaccinium vitis-idaea* 3133
Monilinia vaccinii-corymbosi, *Vaccinium corymbosum* 3133
Moniliophthora roreri, cocoa 2947
Moniliopsis aderholdii, beet 3308, 4494
Monochaetia karstenii, ornamentals 1866
Monochaetia monochaeta, *Rhododendron* 3076
Monochaetia unicornis, *Cupressus lusitanica* 4783
Monographella albescens
CMI descriptions 84
Gramineae 1953
rice 1037, 1957, 1959, 2478, 4294, 4297, 4905
Monolepta signata, transmission, blackgram mottle virus 1692
Monosporascus eutypoides, melons 4047
Montana
barley
Pyrenophora graminea 1473
Pyrenophora teres 4267
wheat, wheat streak mosaic virus 123
Montmorillonite clay
control
citrus
blight 1968
Murcott decline 1968
Moonia albimaculata, transmission, sandal spike 1231
Morianda tinctoria, *Phyllosticta tinctoriae,* Rajasthan 4621
Morocco
barley, *Pyrenophora teres* 4267
Chenopodium album, squash mosaic virus 1690
Cucurbitaceae, squash mosaic virus 1690
tomatoes
Didymella lycopersici 1649
Fusarium oxysporum f.sp. *lycopersici* 2636
Verticillium dahliae 2636
Mortierella
rye 3843
soil 2321
Mortierella macrocystis, *Pseudotsuga menziesii* 3300
Mortierella parvispora, *Pseudotsuga menziesii* 3300
Morus (see Mulberries)
Mucor
Cicer arietinum 2225
grapevines 308
radishes 4040
rhizosphere, pines 44
Mucor hiemalis, tomatoes 2144
Mucor piriformis, pears 273
Mucuna deeringiana
yellow mosaic
India 2029
transmission 2029
Mulberries
antifungal agents 3583
Botrytis cinerea, Switzerland 2539
curly little leaf
DNA 4376

Mulberries *contd.*
curly little leaf *contd.*
mycoplasmas 4375, 4376
ultrastructure 4375
Gibberella baccata f.sp. *mori,* heterothallism 716
Phyllactinia moricola
Brazil 282
overwintering 717
Mulches, control, *Rhizoctonia solani,* beans (*Phaseolus*) 1276, 4056
Mung bean mosaic virus, *Vigna radiata* 1304
Mung bean yellow mosaic virus
Vigna mungo 3378
Vigna radiata 1730, 3378, 3711, 5044
Mung bean yellow mottle virus, *Vigna radiata* 1304

***Musa sapientum* etc.** (see Bananas)
Mushrooms
bacteria, host parasite relationships 822
Chaetomium olivaceum, biological control 2238
Didymocladium ternatum, control 2745
Diehliomyces microsporus, environmental factors 2236
diseases
China 2744
conferences 1311, 1312
control 1314, 1315, 2236, 2237, 4558
Hungary 1315
Jammu and Kashmir 2237
mycorrhizas, conferences 1312
Peziza ostracoderma, South Africa 5051
prochloraz, residues 4558
Pseudomonas tolaasii
conferences 1741
distribution 2236
environmental factors 2236
estimation 821
host parasite relationships 822
Verticillium
control 2236
fungicide tolerance 2236
Netherlands 1313
pathogenicity 1313
vectors 2236
viruses
reviews 1408
RNA 3383
spread 2179
Muskmelon yellow stunt virus
Cucurbitaceae 5023
marrows 3737
melons 3737
Muskmelons (see Melons)
Mustard
fungi, fungicides 2688
turnip mosaic virus, Taiwan 1683
Mycelium radicis atrovirens
larch 1219
Pseudotsuga menziesii 3300
Mycena citricolor, coffee 3875
Myclozolin, control, *Sclerotinia minor,* groundnuts 3373
Mycocentrospora acerina, Fagus 2646
Mycodifol
control
Botrytis cinerea, grapevines 312
Pyrenochaeta lycopersici, tomatoes 3245
Mycodiplosis, Puccinia arachidis 1296
Mycogone perniciosa, mushrooms 1314, 1315, 2744, 4558
Mycoplasmas
apples 261, 262, 2543
broccoli 4034
Callistephus chinensis 4919
Catharanthus roseus 2008, 2508, 2509, 3468
cauliflowers 4034
cherries 3129
Cirsium arvense 3810
coconuts 4745, 4746
Cynodon dactylon 3083
diagnosis 948
Echinochloa colonum 1026
eggplants 3395
elms 3468
epidemiology 3599
Fraxinus americana 3468

Mycoplasmas *contd.*
Gladiolus 3540
grapevines 3599
Limonium sinuatum 4328
maize 3468
mulberries 4375, 4376
onions 2239
palms 4408
Paulownia 3277, 5000
Pedalium murex 2014
pigeon peas 3712
potatoes 2362
Prunus virginiana 3468
raspberries 3810
relationships 4215
rice 1026
Schizanthus wisetonensis 4706
serology 4215
sugarcane 3961
taxonomy 3395
techniques, books 2926
yellowing 3599
Mycorrhizas
Abies concolor 2292
Ageratum houstonianum 1368
agriculture 3764
reviews 2826
Agropyron 2294
Agropyron trachycaulum 894, 2828
Alnus 4143
Antarctica 4146
apples 56, 2835, 3438, 3555, 4157, 4158
Arbutus menziesii 2309
Arctostaphylos pungens 2309
asparagus 56
Asphodelus tenuifolius 2301
bananas 51
barley 561, 2298, 4842
beans (*Phaseolus*) 48, 1813
books 39, 4136
Bouteloua 2294
Brassica napus 2302
Calluna vulgaris 3440
Canada 564
Capsicum 1368, 4156, 4843
Capsicum annuum 3771
cassava 3772, 4155
cereals 2300, 2303, 2825
chestnuts 3432
Cistus 889
citrus 565, 3436
clover 50, 558, 890, 1366, 1369, 1371, 2823, 2833, 2834, 3768, 3769, 3775, 4150, 4929
cocoa 51
Coleus 2305
conferences 2810, 4604
Coniferae 2813
cowpeas 2304
crops 2831
Cruciferae 4148
dunes, Italy 4145
ecology 3433
Elettaria cardamomum 57
Eleusine coracana 563
environmental factors 1810
Erica 3440
Erica carnea 2837
Erica vagans 2837
Ericales 2838
Eucalyptus 549, 888
Eupatorium odoratum 4843, 4844
experiments, apparatus 4138
faba beans 4152, 4154
Fagus 550, 2822
Fagus sylvatica 3770
Falkland Islands 4146
ferns 1373
forest trees 2821
forestry 3764
Fraxinus 2307
Fraxinus pennsylvanica 892
Goodyera repens 2836
grapevines 895
groundnuts 2306
growth 3766
host parasite relationships 54, 2298
reviews 2830
IAA 4137
interactions, plant pathogens 555
Juniperus chinensis 2299
Lablab purpureus 57
leeks 49, 56, 562, 2829, 4157, 4158

Mycorrhizas *contd.*
lemons 1815
lettuce 2824
Liquidamber styraciflua 2307
Liriodendron tulipifera 2307
Lolium perenne 560
maize 1814, 2827, 3439, 3774
Mimosa claussenii 3435
mined sites
Kentucky 4603
Tennessee 4603
mushrooms 1312
nitrogen assimilation 2818
nitrogen fixation, reviews 4147
oak 551, 4140, 4141
oats 56
onions 1370, 2829, 3771, 3774
peas 2825
peppermint 3437
physiology 3433
pines 40, 41, 42, 43, 44, 45, 551, 888, 1363, 1365, 1812, 1813, 2291, 2815, 2817, 2819, 4139, 4142
Piper betle 57
Piper nigrum 57
plant diseases 552
plant protection, reviews 3434
Platanus occidentalis 2307
Polygonum hydropiperoides 2827
poplars 2297, 4142
Pseudotsuga menziesii 2292, 3430, 3431
Pterospora andromedea 897
radishes 4605
reviews 2265, 2812, 2820
Rhododendron 898, 899
Salix rotundifolia 1811
Sarcodes sanguinea 897
shrubs 547
soil fumigants, reviews 557
soil reclamation 46
soils 556
Solanum palinacanthum 3773
South Georgia 4146
soyabeans 59, 559, 4151, 4153
spore germination 1810
spores, sampling 53
spruce 41, 548
strawberries 56
structure 554
Sudan grass 2305
sugarcane 51
Tagetes patula 4157, 4158
Tilia cordata 886, 887
tomatoes 891
trees 51, 547, 2293, 2814
Tsuga heterophylla 1364, 2816
ultrastructure 2811
Vaccinium 2308, 3777
Vaccinium corymbosum 896, 1372
weeds 2300
wheat 562, 1816, 2298, 2301
Mycosphaerella arachidis
groundnuts 1726, 2215, 2729, 2730, 3362, 3364, 3366, 3367, 4067, 4070, 4071, 5041
physiology 4814
Mycosphaerella berkeleyi
groundnuts 1297, 2729, 3284, 3364, 3366, 3367, 3707, 4070, 4071, 5041
physiology 4814
Mycosphaerella brassicicola, Brassica 1
Mycosphaerella caricae, light 3147
Mycosphaerella citri
grapefruits 206
oranges 4304
Mycosphaerella fijiensis, bananas 719, 4100
Mycosphaerella fragariae, strawberries 3136
Mycosphaerella graminicola
Canada 2885
wheat 118, 141, 618, 620, 628, 2962, 2971, 2973, 3488, 4228, 4231, 4252, 4664
Mycosphaerella musicola, bananas 1128, 3142
Mycosphaerella pinodes, peas 454, 794, 4050, 4512, 4801
Mycosphaerella zeae-maydis, maize 4673, 4678
Mycosporin, *Ascochyta fabae* 2840
Mycotoxins
Alternaria alternata 1309

Mycotoxins *contd.*
Alternaria solani 2366
Ascochyta pisi 4512
Aspergillus flavus 4548
Ceratocystis paradoxa 3866
Ceratocystis ulmi 403
Cercospora 3228
Cercospora wrightia 2169
Cladobotryum amazonense 8
Cochliobolus carbonum 4889
Cochliobolus heterostrophus 1484, 1486, 2443, 2996
Cochliobolus sativus 2986
Cochliobolus victoriae 2989
Drechslera sacchari 743, 2318, 4173, 4177
Fusarium 416, 2446, 4225
Fusarium oxysporum 1734
Fusarium solani 4823
Fusarium solani f.sp. *pisi* 1695
Fusicoccum amygdali 4613
Gibberella 416
Gibberella zeae 1488, 1914
Heterobasidion annosum 3289, 4028
Leptosphaeria maculans 1689
Leptosphaeria nodorum 980
Monographella albescens 4297
Mycosphaerella pinodes 4512
pecans 4998
Periconia circinata 4282, 4283
Phoma exigua var. *foveata* 2081
Phytophthora citrophthora 4694
Pleospora herbarum 3444
reviews 13
Rhynchosporium secalis 4268, 4269, 4270
Rosellinia necatrix 1818
Seiridium cardinale 2170
Setosphaeria turcica 1484
Valsa ceratosperma 2038
Verticillium 214, 4105
***Mycovellosiella concors*,** CMI descriptions 84
***Mycovellosiella koepkei*,** sugarcane 1192, 3736, 3970
***Mycovellosiella vaginae*,** CMI descriptions 84
***Myndus crudus*,** transmission, lethal yellowing, palms 4408
Myroridin-K, inhibitors, viruses 4858
Myrothecium
antagonism, plant pathogens 2862
Aphelandra squarrosa 2002
Eichhornia crassipes 2253
soyabeans 3704
Myrothecium cameliae
taxonomy 3643
tea 3643
Myrothecium roridum
antagonism
Helminthosporium apattarnae 2958
Verticillium dahliae 1986
cowpeas 4815
ornamentals 4320
tomatoes 390
Myrothecium verrucaria
antagonism, *Verticillium dahliae* 1986
cucumbers 449
Myzus persicae
potato virus Y, detection 2096
transmission
alfalfa mosaic virus 4567
artichoke latent virus 1319
beet, viruses 4032
beet mild yellowing virus 4493
beet western yellows virus 1400
Capsicum, viruses 2243
cucumber mosaic virus 3888, 4521, 4567, 4793, 4827
dandelion latent virus 943
Helenium virus S 3070
plum pox virus 4363, 4719
potato leaf roll virus 1400, 1845, 2086, 2087, 2095, 3203, 3796, 4970
potato virus Y 2092, 3205, 3624, 4415, 4747
soyabean mosaic virus 1285, 5032
tobacco bushy-top virus 3979
tulip chlorotic blotch virus 1058
M4408, control, *Phytophthora cinnamomi*, avocados 4949
NAA, *Verticillium* 572
***Naemacyclus minor*,** pines 422, 4485
Nandina domestica*, *Nandina stem pitting virus, characterization 3887
***Nandina* stem pitting virus,** *Nandina domestica* 3887
Naphthyrdines
activity
Botryodiplodia theobromae 3758
Glomerella cingulata 3758
Narcissus
Fusarium oxysporum f.sp. *narcissi*, biology 1999
Sclerotinia narcissicola
control 1067
Iraq 1067
tobacco rattle virus, detection 2924
viruses
control 1996, 4096
detection 1996
eradication 1058
testing 4093
UK 1419
***Narcissus* latent virus,** detection 1058
Nebraska
soyabeans, bean pod mottle virus 3341
wheat, wheat spindle streak mosaic virus 124
Nectarines
Botryosphaeria dothidea, varietal reactions 3569
eastern X-disease, control 1571
***Nectria*,** beans (*Phaseolus*) 2204
Nectria cinnabarina
apples 2036
Gleditsia triacanthos 773
Nectria coccinea
Acer pseudoplatanus 397
Fagus 2646
***Nectria fuckeliana*,** antagonism, *Heterobasidion annosum* 3780
Nectria galligena
apples 264, 704, 974, 3115, 3116, 4713
Fagus 763
light 4168
physiology 4168
tolerance, benzoic acid 2313
Nectria haematococca
cultures 3779
enzymes 4167
peas 4514
physiology 4845
Nectria radicicola
Abies alba 1665, 3291
Aucuba japonica 2003
larch 1219
lucerne 4931
ornamentals 1998
Pseudotsuga menziesii 3300
raspberries 1579
***Nematanthus*, *Corynespora cassiicola*,** pathogenicity 220
Nematicides
control, *Phytophthora nicotianae* var. *nicotianae*, tobacco 3230
Leptosphaeria maculans, rape 2186
Nematin, soil treatments 4374
Nematodes
epidemiology, root rots 2367
transmission
grapevines, viruses 2060
viruses 91
Neo Asozin, control, *Septoria chrysanthemella*, *Chrysanthemum* 4324
Nepal
Cicer arietinum, diseases 2737
rice
Pyricularia oryzae 1502, 1928
rice dwarf virus 1928
Nepenthes khasiana
Glomerella cingulata
biochemistry 4830
Meghalaya 4830
***Nephotettix bipunctatus*,** transmission, rice dwarf virus 4895
Nephotettix cincticeps
transmission
rice, viruses 4896
rice bunchy stunt virus 189
rice yellow stunt virus 1500
Nephotettix nigropictus
transmission
rice, viruses 4896
rice gall dwarf virus 188
rice yellow stunt virus 1500
Nephotettix virescens
transmission
rice, viruses 4896
rice tungro virus 1024, 1931, 1934, 4288, 4683, 4684
rice yellow stunt virus 1500
sandal spike 1231
***Nerium indicum*, *Pseudocercospora neriella*,** India 4625
***Nerium oleander*, *Sphaeropsis tumefaciens*,** varietal reactions 2012
Netherlands
bulbs, viruses 1525
flower bulbs, diseases 3057
fruit, diseases 2541
Lilium tigrinum splendens, *Arabis* mosaic virus 3072
mushrooms, *Verticillium* 1313
ornamentals, diseases 4318
poplars, *Pseudomonas syringae* 1227
potatoes
Phytophthora infestans 3950
potato virus S 3622
potato virus Y 3624
Rhizoctonia solani 1177, 3953
weeds, *Rhizoctonia solani* 1177
wheat, diseases 2391
Nevirol, control, *Monilinia*, cherries 1578
New Jersey
cranberries
Ceuthospora lunata 2045
Strasseria oxycocci 2045
Juniperus, *Kabatina juniperi* 1676
oak, mycorrhizas 551
pines, mycorrhizas 551
Vaccinium corymbosum, *Botryosphaeria corticis* 4940
New Mexico
groundnuts, *Rhizoctonia solani* 3708
pines
Heterobasidion annosum 4482
Verticicladiella 4482
New South Wales
Avena
Puccinia coronata 4274, 4275
Puccinia graminis 4274, 4275
cereals, *Puccinia striiformis* 845
lentils, *Ascochyta pisi* 845
lucerne, alfalfa mosaic virus 694
maize, *Ustilago maydis* 2441
oats
Puccinia coronata 4275
Puccinia graminis 845, 4275
plant diseases 845
potatoes
Erwinia chrysanthemi 845
Rhizoctonia solani 3631
wheat
Puccinia graminis 845
Puccinia recondita 845
New York
apples
apple union necrosis and decline 3554
Diaporthe perniciosa 700
tomato ringspot virus 3554
grapevines
Botrytis cinerea 313
Uncinula necator 313
lettuce, *Bremia lactucae* 2230
peaches, *Diaporthe perniciosa* 700
tomatoes, white leaf 2143
New Zealand
Actinidia chinensis, *Sclerotinia sclerotiorum* 2561
Agathis australis, *Lophodermium agathidis* 4195
Amelanchier, *Spilocaea amelanchieris* 1412
asparagus, *Phytophthora megasperma* var. *sojae* 1748
barley, *Pyrenophora teres* 1905
cereals, diseases 1871, 3816
clover, soil fungi 4929
Coniferae, *Seiridium* 4474
crop loss, estimation 109
Cyphomandra betacea
potato aucuba mosaic virus 1587
tamarillo mosaic virus 1587
Eucalyptus
mycorrhizas 549
Septoria pulcherrima 4465
Trimmatostroma bifarium 4465
hyphomycetes 2326

New Zealand *contd.*
lucerne, diseases 1088
Mentha, Puccinia menthae 1600
papayas, *Oidium caricae* 3146
peas, *Aphanomyces euteiches* 848
peony, tobacco rattle virus 945
peppermint, *Puccinia menthae* 1600
pines
Diplodia pinea 5004
Scirrhia pini 4484
Verticicladiella 4025
plant diseases 1412, 2932, 4862
soil, *Phytophthora megasperma* var. *sojae* 1748
stone fruits, diseases 4362
wheat, *Puccinia striiformis* 848, 1890
Newfoundland
potatoes, *Synchytrium endobioticum* 4976
trees, *Armillaria mellea* 4775
NF 44, control, *Myrothecium roridum,* tomatoes 390
NF-48, seed treatments, beans (*Phaseolus*) 1703
Nicandra physaloides, tobacco streak virus, indicator plants 2101
Nickel chloride, control, *Exobasidium vexans,* tea 2626
Nicotiana
tobacco mosaic virus, infection 2633
tobacco rattle virus, symptoms 2919
viruses, susceptibility 599
Nicotiana benthamiana, cassava African mosaic, cytology 835
Nicotiana clevelandii
cucumber mosaic virus, hosts 5020
Cymbidium ringspot virus
enzymes 1405
ultrastructure 1405
potato virus A, cytoplasmic inclusions 3209
velvet tobacco mottle virus, RNA 3805
Nicotiana debneyi
Erysiphe cichoracearum, inhibitors 4767
potato virus U, infection 3208
Nicotiana glauca
Agrobacterium rhizogenes, genetics 1785
cucumber mosaic virus, RNA 4630
Rhizopus arrhizus
Iraq 3650
symptoms 3650
Nicotiana glutinosa
alfalfa mosaic virus, detection 4859
bean distortion dwarf virus, hosts 3691
cucumber mosaic virus, RNA 4630
Erysiphe cichoracearum
immunity 4768
inhibitors 4767, 4989
tobacco mosaic virus
chloroplasts 2138
indicator plants 4437
inhibitors 4858
protoplasts 3461
Nicotiana plumbaginifolia
cucumber mosaic virus, India 3733
tobacco mosaic virus, India 3733
Nicotiana rustica
potato yellow dwarf virus, changes 2356
tobacco mosaic virus, host parasite relationships 3460
viruses, seed germination 4857
Nicotiana sanderae, tobacco mosaic virus, protoplasts 3461
Nicotiana sylvestris, cucumber mosaic virus, hosts 3888
Nicotiana tabacum (see Tobacco)
Nicotiana tomensiformis, *Erysiphe cichoracearum,* inhibitors 4767
Nicotiana xanthi, viruses, seed germination 4857
Niger, citrus, decline 665, 666
Nigeria
Capsicum, tobacco mosaic virus 3391
cassava, diseases 3397
cowpeas
cowpea yellow mosaic virus 3376
cucumber mosaic virus 3376
golden mosaic 3328, 3377
seed testing 3710
crops, diseases 2758
Cucumeropsis edulis, viruses 3317
Dalbergia hostilis, Sphaerophragmium longicorne 3281
Nigeria *contd.*
Hibiscus, Hibiscus esculentus mosaic virus 2917
Hibiscus esculentus, Hibiscus esculentus mosaic virus 3730
maize, diseases 1479, 2992
Millettia, Hapalophragmium nsukkaensis 2933
Panicum maximum, Cercospora oryzae 2479
Pennisetum purpureum, Cercospora oryzae 2479
Phaseolus lunatus, golden mosaic 3328
rice
Cercospora oryzae 2479
rice yellow mottle virus 3007
Sida linifolia, Hibiscus esculentus mosaic virus 2917
soyabeans
soyabean dwarf virus 2208, 3342
soyabean mosaic virus 3342
sweet potatoes, viruses 3400
Telfairia occidentalis, Telfairia mosaic virus 3683
tomatoes, viruses 969
Xanthosoma sagittifolium, root rots 3399
Nigrospora
maize 171
rice 3010
sorghum 3512
Nigrospora sphaerica, *Cymbopogon martini* var. *motia* 341
Nilaparvata lugens
transmission
rice, viruses 3518, 3519
rice ragged stunt virus 1023, 1025, 4685, 4895
Nitric oxide, damage, tomatoes 1216
Nitrofuran, fungicide tolerance, *Fusarium oxysporum* f.sp. *lycopersici* 384
Nitrogen, plant pathogens, resistance 1777
Nitrogen dioxide
activity, soyabeans 4546
damage
grasses 3082
tomatoes 1216
trees 1654
Nitrotal-isopropyl
control
Podosphaera leucotricha, apples 4359
Sphaerotheca fuliginea, cucumbers 4505
Niue Islands, passion fruit, *Alternaria alternata* 1589
NK 483, soil treatments 3680
Nocardia salmonicolor, soil 38
Nordox, control, *Phytophthora palmivora,* cocoa 1869
North America
Cupressaceae, Uredinales 2667
Rhizoctonia 3787
stone fruits, diseases 4362
trees, death 3999
North Carolina
apples, *Botryosphaeria dothidea* 4935
maize, *Cercospora zeae-maydis* 1916
pines, *Gibberella fujikuroi* var. *subglutinans* 1243
Vaccinium corymbosum
mycorrhizas 896
Phomopsis vaccinii 714, 3132
North Dakota, wheat, *Puccinia recondita* 1439
Northern Ireland
apples
Phytophthora 961
Venturia inaequalis 961
barley, *Erysiphe graminis* 1902
clover, *Sclerotinia trifoliorum* 960
potatoes, diseases 1161
Norway
cereals, *Puccinia* 116
potatoes, *Phytophthora infestans* 2608
Nothofagus fusca, decay, detection 4449
Nova Scotia, fungi 4189
Nu-Film, spreaders 652
Nuarimol
activity, *Ustilago avenae* 1397, 4198
control
potatoes, diseases 2102
Septoria apiicola, celery 5019
phytotoxicity, barley 4879
seed treatments, barley 164, 4879
Nuarimol *contd.*
uptake, barley 1353
Nummularia, rubber 8
Nystatin
control, fruit, storage decay 1559
seed treatments, carrots 2689
OAC 3890, control, *Sclerotium rolfsii,* turf 1541
Oak
Ceratocystis fagacearum
infection 3267
Romania 3267
tyloses 3267
Coniothyrium fukelii, Japan 2656
Cronartium fusiforme
electron microscopy 771
genetics 3249
models 3249
sources 1658
ultrastructure 2647
decay
barriers 770
suberization 2254
decline, South Carolina 3268
fungi
air pollution 4015
decay 770, 2165
Poland 4015
Hypoxylon atropunctatum, South Carolina 3268
Inonotus dryophilus, histopathology 2655
Microsphaera alphitoides, biochemistry 3664
mycorrhizas
fire effects 551
New Jersey 551
urban environment 4141
Ophiostoma kubanicum
control 405
transmission 405
Phlebia radiata
ecology 4466
growth 4466
interactions 4466
Phlebia rufa
ecology 4466
growth 4466
interactions 4466
Polyporus adustus
frost injury 3269
Poland 3269
Tuber
mycorrhizas
activity 4140
morphology 4140
Oat sterile dwarf virus, *Lolium multiflorum* 1081
Oats
barley stripe mosaic virus, transmission 2951
barley yellow dwarf virus
breeding 970
detection 114
purification 4205
cadmium, toxicity 2990
Cochliobolus victoriae, toxins 2989
fungi, mycorrhizas 56
mycorrhizas, water relations 2303
Pseudomonas, interactions 644
Puccinia, host parasite relationships 4275
Puccinia coronata
Canada 1006
control 1476
environmental factors 4274
enzyme activity 4882
Europe 1906
fluorescence 642
genetics 2433, 2987
infection 2434
New South Wales 4275
phosphorus 4669
proteins 643
scanning electron microscopy 2988
sporulation 2434
Switzerland 4244
ultrastructure 1907, 1908
varietal reactions 2432
virulence 1906, 2987
Puccinia graminis
Canada 1007
environmental factors 4274
New South Wales 845, 4275

Oats *contd.*
Puccinia graminis contd.
races 1007
Puccinia melanocephala, penetration 4760
Pyrenophora teres, host parasite relationships 4644
Pyricularia oryzae, fluorescence 642
Ustilago avenae, varietal reactions 2432
viruses, detection 1845
wounds, lignification 3842
Oceania
plant protection 1780
yams, Uredinales 2250
Ocimum adscendens, fungicidal properties 1946
Ocimum canum, fungicidal properties 37
Ocotea bullata, avocado sunblotch viroid, infection 3584
Octopine, bacteria 1345
***Odontoglossum* ringspot virus**
Cymbidium 1068
orchids 3073
Ofurace
control, *Phytophthora infestans,* potatoes 2609
fungicide tolerance, *Phytophthora infestans* 4596
Ohio
lawns and turf, *Pythium* 3546
maize, *Colletotrichum graminicola* 1917
strawberries, *Phytophthora cactorum* 3581
wheat, *Rhizoctonia cerealis* 1897
Oidium
carrots 3737
lupins 4319
nomenclature 2897
Psophocarpus tetragonolobus 2227
Tamarindus indica 1233
Oidium acanthospermi, sesame 3174
Oidium ailanthi, *Ailanthus excelsa* 2897
Oidium antigononii, *Antigonon leptopus* 222
Oidium begoniae, *Begonia* 223
Oidium caricae
hosts 3146
papayas 3146
Oidium dendrophthoae, nomenclature 2897
Oidium heveae, rubber 1189, 2128
Oidium mangiferae, mangoes 722
Oidium matthiolae, *Matthiola incana* 4319
Oidium oxalidis, *Oxalis corniculata* 4581
Oidium piperis, *Peperomia verticillata* 6
Oidium scopariae, nomenclature 2897
Oidium vernoniae, *Vernonia divergens* 236
Oil, control, *Mycosphaerella citri,* grapefruits 206
Oil palms
case nine, *Phytomonas staheli* 345
Colombia 345
diseases, control 2073
flagellates, reviews 2072
Ganoderma, control 2937
marchitez sorpresiva
Brazil 1154
Phytomonas 1154
sudden wilt, *Phytomonas staheli* 345
Oils
activity, potatoes 1162
control
rubber, diseases 1189
vectors, rice tungro virus 1024
Oilseed cakes
control, ginger, diseases 3193
fungicidal properties 1936
Oklahoma
fungicides, application 4648
roses, *Diplocarpon rosae* 3078
trees, diseases 3251
Olea europaea (see Olives)
Olives
Arabis mosaic virus, Italy 4727
Cycloconium oleaginum
China 3154, 3921
control 1133, 3597
Egypt 1133
epidemiology 3921
infection 3921
Italy 3597
Phellinus punctatus, Greece 762
Pseudomonas syringae pv. *savastanoi*
environmental factors 4728
Olives *contd.*
Pseudomonas syringae pv. *savastanoi contd.*
populations 4728
virulence 4384
strawberry latent ringspot virus, Italy 4727
Verticillium dahliae
cultures 1590
Italy 1590
Olpidium brassicae
lettuce 4554
transmission
tobacco necrosis virus 4856
tobacco necrosis virus *Chenopodium* necrosis str. 1851
Oncometopia nigricans, bacteria, colonization 3417
Onion yellow dwarf virus, shallots 511
Onions
Alternaria porri
Brazil 4564
cultivation 515
fertilizers 515
physiology 4824
susceptibility 3386
varietal reactions 4564
bacterial diseases, Australia 5058
Botrytis, control 5056
Botrytis allii
control 5057
cytology 827
diagnosis 4083
enzymes 4822
Israel 5057
pathotypes 1316
physiology 1316
sources 514
Cladosporium allii-cepae
control 1317
infection 1317
laboratory tests 1317
overwintering 5055
UK 5055
varietal reactions 1317
Colletotrichum circinans
spore germination 4560
varietal reactions 4560
diseases, control 4084
Endogone pisiformis, mycorrhizas, histopathology 2829
Fusarium oxysporum f.sp. *cepae*
crop loss 825
Hokkaido 4562
interactions 825
varietal reactions 1742
Fusarium solani, toxins 4823
Glomus, mycorrhizas, host parasite relationships 3774
mycorrhizas
growth 1370
Israel 3771
onion yellows
Japan 2239
mycoplasmas 2239
transmission 2239
Peronospora destructor
control 3723
spore dispersal 824
phytotoxicity, quintozene 3388
Pleospora herbarum
Argentina 4825
symptoms 4825
Pseudomonas gladioli pv. *alliicola*
growth 1744
varietal reactions 2749
Pyrenochaeta terrestris
crop loss 825
interactions 825
Sudan 513
Rhizopus oryzae
control 4561
seed germination 4561
Sclerotinia squamosa
control 2240
environmental factors 5053
Florida 2240
spore dispersal 4565
UK 5053
Sclerotium cepivorum
biological control 3385
control 512, 826, 3385, 3724, 3725, 3726, 4563, 5056
Onions *contd.*
Sclerotium cepivorum contd.
Egypt 2241
host parasite relationships 4563
resistance 1318
sclerotia 2241
varietal reactions 1318
seed treatments, germination 3760
soil fungi, control 3784
storage decay
control 1867, 2748
Haryana 1743
Onobrychis viciifolia, *Verticillium albo-atrum,* infection 695
Ontario
beans (*Phaseolus*), ozone 2713
clover, ozone, damage 1086
ferns, mycorrhizas 1373
fungi, plant pathogens 4192
grapevines, tomato ringspot virus 1135, 1136
maize, *Fusarium* 4677
pines, *Gremmeniella abietina* 2662, 5005
poplars, *Melampsora medusae* 3272
Ophiognomonia pseudoplatani
Acer pseudoplatanus 2254, 2646
reports 2254
Ophiostoma kubanicum, oak 405
Opuntia ficus-indica
Armillaria mellea
Italy 3151
sources 3151
Oranges
Alternaria alternata, cultures 2493
Alternaria citri, control 1974
Aspergillus
biochemistry 3051
enzymes 1518
blight
aetiology 1513
control 1513, 1968
blossom-end yellowing, epidemiology 1042
chlorosis, control 3868
citrus tristeza virus, Italy 3864
Cochliobolus lunatus, ascorbic acid 1519
fungi
ethylene 4910
symptoms 1514
Meliola, India 208
Murcott decline, control 1968
Mycosphaerella citri, host parasite relationships 4304
Penicillium, Egypt 4306
Penicillium digitatum, control 1972
Penicillium italicum
control 3049
ethylene 4307
fungicide tolerance 4306
Phytophthora nicotianae var. *parasitica*
control 3045
Sarawak 3045
postharvest decay, control 205
soil fungi, Iraq 1043
Spiropes guareicola, India 208
stem pitting, rootstocks 3040
storage decay
control 4909
enzymes 4305
storage disorders, India 208
Xanthomonas campestris pv. *citri,* control 1046
Orchids
Cymbidium mosaic virus, diagnosis 3073
Odontoglossum ringspot virus, diagnosis 3073
Phytophthora palmivora, control 4701
Oregon
Coniferae, *Phytophthora* 414
Cruciferae, *Plasmodiophora brassicae* 3311
Pseudotsuga menziesii
Fusarium avenaceum 3670
Gibberella pulicaris 3670
raspberries, witches broom 277
Vaccinium corymbosum, viruses 276
Organoantimony, activity, fungi 2283
Organobismuth, activity, fungi 2283
Organomercurial compounds
seed treatments
barley 152
cotton 1522

***Ormosia coccinea*,** wood destroying fungi, resistance 4029
Ornamentals
Alternaria crassa, hosts 923
Cylindrocarpon, pathogenicity 1998
diseases
Italy 4001, 4002, 4319
Netherlands 4318
soilless culture 1862
symptoms 4002
wood destroying fungi 4001
fungi
biology 2927
control 31
Monochaetia karstenii, epidemiology 1866
Myrothecium roridum, pathogenicity 4320
Nectria radicicola, pathogenicity 1998
Pestalotiopsis, epidemiology 1866
Pseudomonas syringae, frost injury 2000
sulphur dioxide, damage 2001
***Orosius cellulosus*,** transmission, cotton, phyllody 1985
***Orosius orientalis*,** transmission, sweet potatoes witches broom 523
Ortho-difolatan, control, coffee, diseases 4314
Ortho X77, surfactants 273
Orthocide
control
apples, storage decay 1565
Monilinia, cherries 1578
Pyrenochaeta lycopersici, tomatoes 3245
strawberries, diseases 3136
phytotoxicity, sesame 3609
seed treatments, sesame 3609
Orthophaltan
control
apples, storage decay 1565
Botrytis cinerea, tomatoes 1646
strawberries, diseases 3136
***Oryza barthii*,** diseases, resistance 3006
Oryza sativa (see Rice)
***Ostrinia nubilalis*,** epidemiology, *Diplodia maydis*, maize 1015
***Ostrya*, *Melampsoridium*,** classification 76
Oxafen, seed treatments, wheat 3480, 3485
Oxafun T, seed treatments, wheat 3480, 3485
Oxalic acid
sunflowers
diseases 2069
Sclerotinia sclerotiorum 4964
***Oxalis corniculata*, *Oidium oxalidis*,** Korea Republic 4581
Oxicob, activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
Oxidants
damage
clover 1417
Plantago major 1417
potatoes 2125, 3216
Oxycarboxin
activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
control
Hemileia vastatrix, coffee 1048
Melampsora amygdalinae, *Salix triandra* 1229
Phragmidium mucronatum, roses 2519
Puccinia arachidis, groundnuts 494
Puccinia helianthi, sunflowers 1149
Puccinia hordei, barley 154
Puccinia melanocephala, sugarcane 3971
Sclerotium rolfsii, groundnuts 3370
Tilletia indica, wheat 1891
Uromyces appendiculatus, beans (*Phaseolus*) 1277
Oxytetracycline
activity
citrus, blight 1967
rice 1021
control
Agrostis palustris, bacterial diseases 242
apples, proliferation 2543
citrus, blight 1513
Xanthomonas campestris pv. *citri*, lime (citrus) 673
Oxytetracycline *contd.*
control *contd.*
Xanthomonas campestris pv. *malvacearum*, cotton 1523
Xanthomonas campestris pv. *vesicatoria*, *Capsicum* 1752
laboratory tests, *Corynebacterium michiganense* pv. *michiganense* 3997
Oxytetracycline hydrochloride
control
nectarine eastern X-disease 1571
peach eastern X-disease 1571
Ozone
activity
Alternaria brassicae 1374
Heterobasidion annosum 901
Monilinia fructigena 1374
Phytophthora infestans 1374
soyabeans 4223
tomatoes 4149, 4223
mycorrhizas 891
damage
beans (*Phaseolus*) 470, 1281, 1706, 2712, 2713, 3699
Cicer arietinum 2229
clover 1086, 1417, 2522
crops 1414
Festuca arundinacea 2522, 4340
groundnuts 4073
Petunia 1535
Plantago major 1417
potatoes 1188, 3216, 3217
soyabeans 3351
tobacco 2142
tomatoes 1216, 4436
trees 1653, 1654
wheat 4105
Pachysacca samuellii*, *Eucalyptus 2164
***Pachysandra terminalis*,** alfalfa mosaic virus, identification 1536
Pakistan
Perenniporia ahmadii 4623
Perenniporia robiniophila 4623
Palms
cadang-cadang
reviews 2074
South East Asia 2074
Cochliobolus setariae, Florida 346
lethal yellowing
epidemiology 1156
Florida 1156
Phaeotrichoconis crotalariae, Florida 346
Setosphaeria rostrata, Florida 346
Panama, plant diseases 4100
Panax ginseng
Fusarium
environmental factors 1150
Korea Republic 1150
Panax quinquefolius
bushy stunt, research 2071
yellow stunt, research 2071
***Panicum maximum*, *Cercospora oryzae*,** hosts 2479
***Panicum maximum* var. *trichoglume*,** viruses, Queensland 248
Panicum miliaceum
Helminthosporium panici-miliacei, infection 4681
Sphacelotheca destruens
races 3513
varietal reactions 3513
***Panicum* mosaic virus**, serological diagnosis 3004
***Panicum* mosaic virus St. Augustine grass decline str.**
serological diagnosis 3004
Stenotaphrum secundatum 2529, 3086
Panoctin UTB, seed treatments, barley 1904
Panoctine, control, *Ceratocystis paradoxa*, sugarcane 1196
Papaver somniferum
Peronospora arborescens, control 3932
Sclerotinia sclerotiorum
control 2577
fertilizers 2577
host parasite relationships 2577
Papaw droopy necrosis virus, papayas 3595
Papaw mosaic virus
papayas 2053, 4956
Ullucus tuberosus 2180
Papaw ringspot virus, papayas 287, 723, 3595, 4382
Papayas
Colletotrichum dematium, phenols 3148
Corynespora cassiicola
control 4383
India 4383
Glomerella cingulata
infection 4957
phenols 3148
Oidium caricae
hosts 3146
New Zealand 3146
papaw droopy necrosis virus, Florida 3595
papaw mosaic virus, aetiology 4956
papaw ringspot virus
characteristics 4382
Florida 2053, 3595
hosts 723
varietal reactions 287
Venezuela 4382
Rhabdoviridae
aetiology 2053
Florida 2053
Rhizoctonia solani, pathogenicity 1586
Papua New Guinea
cocoa, *Phytophthora palmivora* 1869
Psophocarpus tetragonolobus, diseases 2227
sugarcane
Drechslera stenospila 740
Peronosclerospora sacchari 3965
Pseudomonas rubrilineans 740
Stagonospora sacchari 740
Parsley
Erysiphe umbelliferarum, control 1601
Pythium paroecandrum, control 961
***Parthenium hysterophorus*,** biological control 1325
***Paspalidium punctatum*, *Phyllachora punctum*,** India 1547
***Paspalum*, *Fusarium crookwellense*,** geographical distribution 1831
***Paspalum distichum*, *Phyllachora paspalicola*,** India 1547
***Paspalum scrobiculatum*, *Alternaria alternata*,** India 1924
Passiflora edulis (see Passion fruit)
Passion fruit
Alternaria alternata
control 1589
Niue Islands 1589
symptoms 1589
Paullinia cupana
Calonectria rigidiuscula
Brazil 343
symptoms 343
***Paulownia*,** witches broom, aetiology 3277
***Paulownia fortunei*,** witches broom, resistance 5000
***Paulownia taiwaniana*,** witches broom, resistance 5000
Paxillus involutus
pines, mycorrhizas 1365
trees, mycorrhizas 4606
PCBA, control, *Pyricularia oryzae*, rice 3015
PCNB (see Quintozene)
Pea early browning virus, faba beans 4058
Pea enation mosaic virus
CMI/AAB descriptions 89
faba beans 4058
sweet peas 942
transmission 2203
Pea leaf roll virus, *Cicer arietinum* 2737
Pea mosaic virus, faba beans 4532
Pea seed-borne mosaic virus, peas 4509
Pea streak virus
faba beans 3089
lucerne 3089, 3090
peas 3089
Peach rosette mosaic virus, grapevines 4386
Peaches
Armillaria tabescens
infection 4364
survival 4364
Aspergillus niger
control 1559
phenolic compounds 1560
Botryosphaeria
fruit rots 3573
Georgia 1574

Peaches *contd.*
Botryosphaeria dothidea
Georgia 1557
varietal reactions 3569
Cephalosporium, sources 1091
Diaporthe perniciosa
New York 700
symptoms 700
eastern X-disease, control 1571
fluorine, damage 1575
Glomerella cingulata, fruit rots 3573
Monilinia fructicola
conidia 2041
control 1109, 1573, 3572
fungicide tolerance 1572, 2042, 3572, 4367
reviews 1573
survival 1109
phony, bacteria, vectors 3417
plum pox virus
pathology 4717
transmission 4363, 4719
postharvest decay
control 3126
France 3126
prune dwarf virus, infection 3913
Prunus necrotic ringspot virus, infection 3913
Pseudomonas syringae pv. *persicae*
France 3127
spread 3127
Sphaerotheca pannosa var. *persicae,* specialization 4365
storage decay, controlled atmosphere storage 1108
Taphrina deformans, reviews 4366
tomato ringspot virus, epidemiology 260
Valsa cincta
aetiology 1110
sporulation 4937
varietal reactions 2553
Valsa leucostoma
aetiology 1110
epidemiology 4937
sporulation 4937
Verticillium, sources 1091
warty bark spot
China 4939
fungi 4939
wood
decay 274
wounds 274
X-disease, vectors, control 275
Pears
Botrytis cinerea, control 273
Cephalosporium, sources 1091
Chondrostereum purpureum, control 974
decline, aetiology 3124
Diaporthe tanakae, Japan 710
dieback
Bulgaria 3553
control 3553
diseases
control 4713
Netherlands 2541
Switzerland 2539
Erwinia amylovora
biochemistry 3552
epidemiology 3552
forecasting 2271
France 2271
testing, chemicals 1566
USSR 3567
varietal reactions 3567
yield losses 3567
Eutypa armeniacae, Australia 4863
fungicide residues 1093
Fusarium solani, India 1859
Gymnosporangium haraeanum, control 3912
mineral deficiencies, boron 3553
Mucor piriformis, control 273
Penicillium expansum, control 273
Sclerotium rolfsii
control 1559
phenolic compounds 1560
storage decay, damage 3551
storage disorders 1096
Venturia pirina
control 702, 3566
USSR 1094, 4716
varietal reactions 1094, 4716
Verticillium, sources 1091
Pears *contd.*
wind
damage 1569
varietal reactions 1569
zinc, foliar uptake 876
Peas
Aphanomyces, environmental factors 2708
Aphanomyces euteiches
integrated control 1271
New Zealand 848
USSR 1271
variations 3689
varietal reactions 3330
Ascochyta, testing 4050
Ascochyta pisi, toxins 4512
bean yellow mosaic virus, relationships 3886
cucumber mosaic virus
inoculation 4510
RNA 2923
Cylindrocladium clavatum, Brazil 455
diseases
breeding 2705, 4509
control 451, 453, 4801
UK 1419
Erysiphe pisi, enzyme activity 3329
Erysiphe polygoni
biological control 4513
control 1696, 1697, 4053
Rajasthan 4802
Sikkim 4053
varietal reactions 1699, 4802
fungi
interactions 4513
seeds 1698
Fusarium
environmental factors 2708
India 795
varietal reactions 795
Fusarium oxysporum
control 454
seed testing 454
varietal reactions 3330
Fusarium oxysporum f.sp. *pisi*
proteins 793
resistance 793
testing 4803
ultrastructure 2943
Fusarium solani, mutants 3238
Fusarium solani f.sp. *phaseoli,* resistance 4511
Fusarium solani f.sp. *pisi*
control 1694, 4515
mycotoxins 1695
Macrophomina phaseolina
control 454
seed testing 454
mycorrhizas, environmental factors 2825
Mycosphaerella pinodes
control 454, 794
seed testing 454
toxins 4512
Nectria haematococca, phytoalexins 4514
pea streak virus, transmission 3089
Peronospora viciae
ultrastructure 2707
varietal reactions 2706
Phoma medicaginis var. *pinodella*
control 454
resistance 452
seed testing 454
testing 452, 1272
varietal reactions 1272
Pythium, biological control 4516
Pythium ultimum
biological control 3418
control 2201
Rhizoctonia solani, control 2201
root rots, environmental factors 4051
seed treatments, germination 4052
spinach, viruses, hosts 2679
subterranean clover red leaf virus, purification 1855
sulphur dioxide, activity 4517
viruses, sources 3089, 3090
Peat, control, *Cryphonectria parasitica,* chestnuts 3660
Pecans
Agrobacterium tumefaciens
biological control 3270
Georgia 3270
Pecans *contd.*
Aspergillus
aflatoxins 4998
USA 4998
Cercospora effusa
environmental factors 2166
inoculation 4779
seasonal development 4779
spore dispersal 1225, 2166
Cladosporium caryigenum
electron microscopy 3665
resistance 3665
yield losses 4999
Pectobacterium (see *Erwinia*)
Pedalium murex
little leaf
mycoplasmas 2014
symptoms 2014
Pedicularis resupinata, *Cronartium ribicola,* spore germination 5003
Pelargonium
diseases, Reunion 3405
fungicides, activity 4331
Pelargonium vein clearing virus
characteristics 4702
relationships 4702
Pseudomonas cichorii
control 3543
hosts 3543
symptoms 3543
Puccinia pelargonii-zonalis, sulphur dioxide 4866
Pythium ultimum, host parasite relationships 4332
viruses
Italy 4703
quarantine 2805
Xanthomonas campestris pv. *pelargonii,* toxins 1070
Pelargonium hortorum, tobacco ringspot virus, detection 1069
***Pelargonium* line pattern virus**
Chenopodium quinoa 1533
faba beans 1533
***Pelargonium* vein clearing virus,** *Pelargonium* 4702, 4703
Pelargonium zonale, *Corynebacterium fascians,* strains 1788
***Pelargonium* zonate spot virus,** *Pelargonium* 4703
Peltar, control, *Deuterophoma tracheiphila,* citrus 3043
Pencycuron, soil treatments 1061
Penicillin, activity, rice 1021
Penicillium
Actinidia chinensis 3596
activity, plant pathogens 907
antagonism
plant pathogens 1051
Rhizoctonia solani 1986
barley 3836
cellulase 1387
clover 4929
control, *Phytophthora palmivora,* cocoa 113
Gladiolus 1066
grapevines 308
Pleurotus sajor-caju 4082
potatoes 3945
rhizosphere, pines 44
wheat 126
Penicillium caerulescens, soil 4182
Penicillium capsulatum, barley 3836
Penicillium chrysogenum, viruses, transmission 101
Penicillium corymbiferum, Iris 3069
Penicillium cyclopium, activity, plant pathogens 907
Penicillium digitatum
citrus 1973, 2756, 3042, 4695, 4910
onions 1743
oranges 1972, 4306
Penicillium expansum
apples 271, 2549
fungicide tolerance 3759, 3761
fungicides, activity 3421
pears 273
tomatoes 3237
Penicillium funiculosum, barley 3836
Penicillium hordei, barley 3836
Penicillium italicum
citrus 670
clementines 3050

Penicillium italicum *contd.*
fungicide tolerance 3761
oranges 3049, 4306, 4307
sporulation 3050
Penicillium lilacinum, control, *Phomopsis sclerotioides,* cucumbers 2197
Penicillium nigricans, *Pseudotsuga menziesii* 3300
Penicillium notatum, onions 1743
Penicillium patulum
antagonism
Rhizoctonia solani 1986
Verticillium dahliae 1986
Penicillium piceum, barley 3836
Penicillium roquefortii, barley 3836
Penicillium tardum, *Cicer arietinum* 817
Penicillium verrucosum* var. *cyclopium
barley 3836
Brassica campestris 5009
rape 2189
Pennisetum americanum
Claviceps fusiformis
control 4893
epidemiology 4892
hosts 4892
India 4893
infection 1922
pollen 4893
Rajasthan 4892
diseases
India 2451
testing 2451
Puccinia penniseti, control 3852
Pyricularia penniseti
air spora 187
India 187
physiology 4680
Sclerospora graminicola
control 1923
heterothallism 2450
India 1019
mineral nutrition 1496
pathogenicity 3002, 3003
sources 1828
susceptibility 4285
varietal reactions 1019, 3002, 3003
yield losses 1921
seedborne fungi, control 3514
Tolyposporium penicillariae, pollen 4284
Pennisetum purpureum
Cercospora oryzae, hosts 2479
sugarcane ratoon stunting, symptoms 747
Pennsylvania
maize, maize dwarf mosaic virus 167
tomatoes, *Pseudomonas syringae* pv. *tomato* 3996
Pentachlorobenzyl alcohol, control, *Pyricularia oryzae,* rice 3014
Pentachloronitrobenzene (see Quintozene)
Peony
tobacco rattle virus
New Zealand 945
Scotland 945
Peperomia, bacteria, physiology 2515
Peperomia obtusifolia, *Verticillium dahliae,* Italy 232
Pepper, black (see *Piper nigrum*)
Pepper mild mosaic virus
Capsicum 520
tobacco 520
Pepper mottle virus, *Capsicum* 829
Pepper veinal mottle virus
Physalis angulata 838
tomatoes 969
Peppermint
Glomus fasciculatum, mycorrhizas, host parasite relationships 3437
Puccinia menthae
New Zealand 1600
races 1600
spread 1600
Peregrinus maidis, transmission, maize chlorotic vein banding virus 168
Perenniporia ahmadii, Pakistan 4623
Perenniporia robiniophila
India 4623
Pakistan 4623
Perenox
control
Alternaria ricini, Ricinus communis 2578
Glomerella cingulata, coffee 3529
Perenox *contd.*
control *contd.*
Hemileia vastatrix, coffee 1979
Periconia, clover 4929
Periconia circinata, sorghum 4282, 4283
Periconia macrospinosa, rye 3843
Periconiella liberatas, *Chionochloa* 2326
Peridermium bethelii, *Arceuthobium americanum* 5002
Periman, control, *Phytophthora infestans,* tomatoes 1213
Peristrophe acuminata, *Semipseudocercospora peristrophes-acuminatae,* Malaysia 4622
Permethrin, activity, fungi 2289
Perocine, control, apples, storage decay 1565
Peronosclerospora maydis, maize 2442
Peronosclerospora sacchari
maize 7, 1485
sugarcane 1198, 1199, 2133, 2625, 3965
Peronosclerospora sorghi
cereals 2954
grasses 4220
maize 170, 649, 1011, 2992, 2995, 4649
sorghum 178, 182, 1011, 2449, 3000, 4649
Peronospora
carnations 3883
Rosaceae 3446
Peronospora arborescens, *Papaver somniferum* 3932
Peronospora destructor, onions 824, 3723
Peronospora farinosa
beet 1
spinach 781, 3678
Peronospora manshurica
oospores 2726
soyabeans 487, 2726, 2801, 3340, 3349
Peronospora parasitica
activity
DPX 3217 4599
mancozeb 4599
cabbages 877
cauliflowers 2682
Chinese cabbages 3314
Indian mustard 4599
radishes 1254, 4040
rape 2682, 3814
Peronospora sparsa
boysenberry 4377
roses 1073, 3889
Peronospora spinaciae, spinach 4866
Peronospora tabacina, tobacco 381, 755, 1636, 2139, 2801, 3648, 3649, 3976, 3980, 4425, 4429, 4430, 4763, 4767, 4988
Peronospora trifoliorum, lucerne 4348
Peronospora viciae, peas 1269, 2706, 2707, 4509
Peronosporaceae, Portugal 2874
Peronosporales
genetics 4620
Romania 2330
Persea americana (see Avocados)
Persea indica, *Phytophthora cinnamomi,* fertilizers 2050
Persea schiedeana, avocado sunblotch viroid, infection 3584
Persimmons
fungi
control 1131
fruit 1131
Peru
forest trees, wood destroying fungi 4029
potatoes
potato leaf roll virus 3203
potato virus U 3208
tobacco streak virus 2101
Peru tomato virus, CMI/AAB descriptions 89
Pestalotia annonicola
laboratory tests, fungicides 2857
physiology 2856
Pestalotia gracilis
laboratory tests, fungicides 2857
physiology 2856
Pestalotia menezesiana, *Cissus rhombifolia* 2510
Pestalotia truncata, *Gevuina avellana* 3279
Pestalotiopsis, ornamentals 1866
Pestalotiopsis funerea, Cupressaceae 4489
Pestalotiopsis menezesiana, nomenclature 2510
Pestalotiopsis palmarum
coconuts 3198
Schoenoplectus triqueter 4353
Pestalotiopsis quadricilliata, Vitaceae 2510
Pestalotiopsis uvicola, Vitaceae 2510
Pestalotiopsis versicolor, *Carissa carandas* 2056
Pesticides
activity
plant pathogens 4538
soyabeans 4538
application 1346, 1796, 1839, 1840
crops, Oklahoma 4648
hops, UK 3169
books 2774
conferences 30
developing countries, reviews 4128
directories 2789
evaluation 31
Japan
evaluation 2279
reviews 1348
translocation 2278
laboratory tests 28
Trichoderma viride 27
plant protection, conferences 2792
reviews 29
tolerance, conferences 868
toxicity, books 541
Petasites japonicus, cucumber mosaic virus, Japan 4640
Petroselinum crispum (see Parsley)
Petunia
ozone, damage, control 1535
tobacco mosaic virus
infection 2633
strains 4333
varietal reactions 4333
viruses, susceptibility 599
***Petunia* asteroid mosaic virus,** cherries 3128
Petunia hybrida
Arabis mosaic virus, purification 1534
tobacco mosaic virus
distribution 2013
immunity 2013
Pezicula, apples 270
Pezicula alba, apples 264, 269, 2539
Pezicula cinnamomea, oak 4015
Pezicula livida, larch 1219
Pezicula malicorticis, apples 264, 269, 704, 3551
Peziza ostracoderma, mushrooms 5051
Pezizella ericae
Vaccinium angustifolium, mycorrhizas 3777
Vaccinium corymbosum, mycorrhizas 1372, 3777
Phacidiopycnis pseudotsugae, larch 1219
Phacidium infestans, pines 953
Phaeocryptopus gaeumannii, *Pseudotsuga menziesii* 5006, 5007
Phaeodactylium venkatesanum, *Elettaria cardamomum* 3931
Phaeoisariopsis griseola, beans (*Phaseolus*) 2206, 2756, 2932, 4054, 4523
Phaeolus schweinitzii
Pseudotsuga menziesii 413
spruce 2254
Phaeoramularia, China 2327
Phaeotrichoconis crotalariae, palms 346
Phakopsora, yams 2250
Phakopsora meliosmae, *Meliosma myriantha* 3280
Phakopsora pachyrhizi, soyabeans 4540, 4541, 4542
Phalaris arundinacea, *Drechslera gigantea,* hosts 249
Phaltan, control, yams, diseases 3732
Phaseolus, bacterial diseases, testing 2781
Phaseolus acutifolius, *Corynebacterium flaccumfaciens* pv. *flaccumfaciens,* varietal reactions 469
Phaseolus coccineus
viruses
Brazil 460
interactions 460
Phaseolus lunatus
golden mosaic
environmental factors 3328
epidemiology 3328
Nigeria 3328
Phaseolus vulgaris (see Beans (*Phaseolus*))

Phellinus everhartii, trees 4008
Phellinus ferreus, trees 4008
Phellinus ferrugineofuscus, trees 4008
Phellinus ferruginosus, trees 4008
Phellinus igniarius
Betula pubescens 3258
grapevines 4387
trees 4008
Phellinus noxius
classification 1625
rubber 1625
Phellinus pachyphloeus
physiology 1384
Sesbania aegyptiaca 1384
Phellinus pini, pines 3251, 3296
Phellinus punctatus
elms 762
olives 762
Phellinus rimosus, pistachios 762
Phellinus robineae, *Robinia pseudoacacia* 3251
Phellinus weirii
bacteria, antagonism 4448
Streptomyces, antagonism 4448
Phenapronil, seed treatments, rice 193
Phenols, *Xanthomonas campestris* pv. *oryzae,* rice 1962
Phenoxyacetic acids, activity, *Plasmodiophora brassicae,* cabbages 4042
Phenylmercury acetate
control, *Corticium salmonicolor,* rubber 2937
seed treatments
beans (*Phaseolus*) 4804
Lablab purpureus 2743
sorghum 1920
Phenylmercury chloride, control, *Venturia inaequalis,* apples 3108
Phenylmercury salicylate, control, *Sclerotium rolfsii, Piper betle* 3933
Phenylthiourea
laboratory tests
Alternaria alternata 34
Aspergillus niger 34
Cochliobolus sativus 34
Fusarium oxysporum 34
Phialophora
growth 1895
wheat 143, 4239, 4240
Phialophora graminicola, growth 1895
Phialophora gregata
soyabeans 3690
Vigna angularis 3690
Philippines
coconuts, cadang-cadang 729
rice
rice tungro virus 4894
viruses 3518, 3519
sugarcane
Puccinia kuehnii 3964
Ustilago scitaminea 3966
Philodendron selloum, *Erwinia chrysanthemi,* fertilizers 233
Phlebia gigantea, pines 1246
Phlebia radiata, oak 4466
Phlebia rufa, oak 4466
Phleum, *Xanthomonas campestris* pv. *phlei,* hosts 241
***Phleum* mottle virus,** detection 1551
Phleum pratense
boron, nutrition 3891
Cochliobolus sativus, interactions 2367
Sclerotinia borealis, resistance 4336
Typhula ishikariensis, resistance 4336
Phlox, *Erysiphe cichoracearum* f.sp. *phlogis,* varietal reactions 1071
Phoenix, *Graphiola phoenicis,* taxonomy 347
Phoenix canariensis
Graphiola phoenicis
taxonomy 3200
ultrastructure 3200
Phoenix dactylifera (see Date palms)
Phoma
Actinidia chinensis 1132
apples 263
clover 4929
potatoes 350
soyabeans 3704
taxonomy 3449
trees 1652, 4013
Viburnum 3058
Phoma *contd.*
wheat 1436
Phoma americana
maize 2389
wheat 2389
Phoma anethi, caraway 3187
Phoma chrysanthemicola, clover 4929
Phoma costarricensis, coffee 4312
Phoma epicoccina, CMI descriptions 85
Phoma eupyrena, potatoes 4421
Phoma exigua
enzymes 2319
Melochia corchorifolia 1766
potatoes 368, 1160, 1172, 1180, 4421
Verbena 4334
Phoma exigua* var. *exigua
raspberries 1579
taxonomy 4864
Phoma exigua* var. *foveata
potatoes 367, 1161, 1181, 1182, 1612, 2079, 2080, 2081, 2102, 2103, 2104, 2112, 2114, 2115, 2116, 2616, 3212, 3613, 3626, 3636, 3944, 4411, 4747, 4864
taxonomy 4864
Phoma exigua* var. *lilacis, lilac 4699
Phoma exigua* var. *linicola
flax 4864, 4913, 4914, 4915
taxonomy 4864
Phoma herbarum* f. *lilacis, lilac 4699
Phoma medicaginis, lucerne 4931
Phoma medicaginis* var. *pinodella, peas 452, 454, 1272, 4050, 4801
Phoma microspora, groundnuts 3363, 3369
Phoma nebulosa, sesame 1147
Phoma sesamina, sesame 1766
Phoma sorghina
Grewia asiatica 4705
sorghum 4281
Phoma violacea, apples 4715
Phomopsis
clover 4929
Gardenia 228
Geranium 3736
soyabeans 474, 1717, 2212, 3344, 4543
Phomopsis alnea, *Alnus glutinosa* 4473
Phomopsis gulabia, roses 1539
Phomopsis incarcerata, roses 1537
Phomopsis ipomoeae-batatas, CMI descriptions 85
Phomopsis leptostromiformis, lupins 259, 2537
Phomopsis macrospora, poplars 4471
Phomopsis oblonga, control, *Ceratocystis ulmi,* elms 404
Phomopsis occulta, larch 1219
Phomopsis phyllanthi, *Phyllanthus emblica* 3152
Phomopsis pustulata, *Acer pseudoplatanus* 397
Phomopsis quercella, oak 4015
Phomopsis sclerotioides, cucumbers 2197
Phomopsis sojae, soyabeans 3340
Phomopsis theae, tea 1200
Phomopsis vaccinii, *Vaccinium corymbosum* 714, 3132
Phomopsis vexans, eggplants 3396
Phomopsis viticola
grapevines 337, 1143, 3165, 4387
sporulation 3165
sulphur 3165
Phorate, seed treatments, *Crotalaria juncea* 680
Phorodon humuli
transmission
American hop latent virus 2064
hop latent virus 2064
Phosphoramidate, metabolites, *Pyricularia oryzae* 2797
Phragmidium mucronatum, roses 686, 2517, 2518, 2519
Phragmidium rubi-idaei, raspberries 1118, 1120, 3580
Phragmidium tuberculatum, roses 2875
Phthalide, residues, rice 2471
Phyllachora paspalicola, *Paspalum distichum* 1547
Phyllachora punctum, *Paspalidium punctatum* 1547
Phyllactinia moricola, mulberries 282, 717
Phyllanthus emblica
Phomopsis phyllanthi
control 3152
Phyllanthus emblica *contd.*
Phomopsis phyllanthi contd.
India 3152
Phyllosphere
Cladosporium cladosporioides, wheat 3822
Hexacladium corynephorum 3786
Sporobolomyces roseum, wheat 3822
Phyllosticta
cloves 4395
trees 1652
Phyllosticta aurea, *Rhododendron* 3076
Phyllosticta coffeicola, coffee 1983
Phyllosticta decidua, *Veronica speciosa* 6
Phyllosticta musarum, bananas 4379
Phyllosticta sambacae, *Jasminum sambac* 4621
Phyllosticta tinctoriae, *Morianda tinctoria* 4621
Phymatotrichopsis omnivora
anhydrous ammonia, toxicity 543
cotton 3055
grapevines 3159
physiology 574
Physalis angulata
pepper veinal mottle virus, Ivory Coast 838
potato virus A, indicator plants 603
Physalis floridana, viruses, detection 1845
Physalis minima, *Pseudomonas solanacearum,* infection 1768
Physoderma alfalfae
CMI descriptions 2896
lucerne 1087, 1088
Physoderma leproides, CMI descriptions 2896
Physoderma maydis, CMI descriptions 2896
Physoderma pulposum, CMI descriptions 2896
Physopella zeae, maize 1489
Phytalide, control, *Pyricularia oryzae,* rice 1035
Phytoalexins
activity, fungi 2287
apples 3115
bactericidal activities 4545
bananas 3143
beans (*Phaseolus*) 456, 973, 1702, 1704, 2202
beet 3308, 4494
Capsicum 830, 1858, 3728, 4569
carrots 2194, 3316
cocoa 611
cotton 2501
detoxification, *Nectria haematococca* 4167
faba beans 1708, 1858
grapevines 326
Lablab purpureus 1307
laboratory tests
Botrytis cinerea 35
Cladosporium herbarum 35
lucerne 254, 4351
mechanisms 4644
mulberries 3583
peas 4167, 4514
pigeon peas 1306
potatoes 864, 2105, 3946, 4418
rice 199, 1032, 3033
soyabeans 482, 1715, 2202, 3339, 3347, 3348, 4351, 4545, 5037
Tephrosia bidwilli 962
tobacco 1206, 3647
Phytolacca americana
Cercospora flagellaris, Japan 584
inhibition, plant viruses 936
Phytomonas
Asclepias curassavica 2364
coconuts 1610, 1611
Euphorbia lasiocarpa 2364
oil palms 1154
vectors 4216
Phytomonas staheli
coconuts 345, 4965, 4966
Colombia 345
oil palms 345
Phytoncides, grapevines 2571
Phytophthora
Abies alba 1236
apples 961
books 3414
citrus 4099

***Phytophthora* contd.**
cocoa 8, 612, 975
conferences 3406, 3414
control 1800
cowpeas 2220
cultures 2845
grapevines 3922
identification 82
metalaxyl, activity 1355
pines 4848
Piper nigrum 8, 4397
potatoes 350
rubber 1189
storage 1838
taxonomy 927, 928
trees 1652
***Phytophthora botryosa*,** rubber 1189, 2128
Phytophthora cactorum
Actinidia chinensis 290
apples 704, 961, 1411, 1558, 1564, 2546, 3105, 3562, 3907, 4713, 4934
Calceolaria 1062
Coniferae 414
fungicide tolerance 3424
physiology 1378
steroid metabolism 1378
sterols 2311
strawberries 281, 1122, 2048, 3138, 3581, 3915
zoospores 1375
Phytophthora cambivora
apples 1558
cherries 1558
Phytophthora capsici
Capsicum 1321, 1411, 2244, 3393, 3737, 4030, 4568, 4570, 4571
cocoa 112, 2374, 2375
crops 907
differentiation 3789
rubber 8
taxonomy 928
Phytophthora cinnamomi
Abies fraseri 3666, 4476
Actinidia chinensis 290
Actinomycetaceae, antagonism 4848
avocados 718, 1583, 2756, 2844, 3592, 3593, 4378, 4948, 4949, 4950, 4951, 4952, 4953
Coniferae 414, 1866
cultures 2845
Dryandra sessilis 4997
Eucalyptus 769, 1411, 3265, 4462, 4997
Eucalyptus goniocalyx 394
Eucalyptus macrorhyncha 394
Eucalyptus marginata 1657, 4848
forests 1415
grapevines 3159, 3603
histopathology 2945
host parasite relationships 2945
interactions, amoeba 583
Isopogon ceratophyllus 394
Juniperus 427
lupins 172, 2871
maize 172
Persea indica 2050
physiology 569, 961
Rhododendron 1072, 3077
Sciadopitys verticillata 4488
soil 578, 2871, 4009, 4847
spore germination 60
Phytophthora citricola
Actinidia chinensis 290
apples 961
guavas 285
Nothofagus procera 2646
Phytophthora citrophthora
cocoa 112, 2375
Coptis 3191
mycotoxins 4694
saccharides 4694
Phytophthora cryptogea
Actinomycetaceae, antagonism 4848
apples 1558
cherries 1558
Coniferae 414
Gerbera 1800
Juniperus 427
safflower 4963
Trichoderma, antagonism 1389
Phytophthora drechsleri
Cucurbitaceae 448
cytology 507, 1817
staining 1817
***Phytophthora drechsleri* f.sp. *cajani*,** pigeon peas 2738
Phytophthora erythroseptica
clover 1085
potatoes 4411
***Phytophthora fragariae*,** strawberries 715, 1115, 1124, 1125, 1419, 3140, 4941
Phytophthora infestans
cultures 2604
identification 82
isolation 4202
laboratory tests, fungicides 2795, 3420
mating 4164
ozone, responses 1374
potatoes 356, 357, 358, 359, 360, 361, 362, 610, 733, 734, 735, 871, 872, 1159, 1161, 1172, 1173, 1174, 1175, 1411, 1860, 2105, 2106, 2107, 2602, 2603, 2605, 2606, 2607, 2608, 2609, 2756, 2796, 3210, 3612, 3613, 3627, 3628, 3629, 3946, 3947, 3948, 3949, 3950, 4409, 4411, 4418, 4419, 4420, 4972, 4973, 4974, 4975
survival 4164
tomatoes 387, 610, 1213, 1860, 2149, 2156, 2637, 2796, 3737, 4439
***Phytophthora katsurae*,** oospores 4160, 4161
Phytophthora lateralis*, *Actinidia chinensis 290
***Phytophthora meadii*,** CMI distribution maps 950
***Phytophthora megakarya*,** cocoa 612
Phytophthora megasperma
apples 1558
cherries 1558
Coniferae 414
fungicide tolerance, metalaxyl 32
hosts 2890
laboratory tests, pesticides 4538
lucerne 4930
morphology 2890
taxonomy 2333
Phytophthora megasperma* f.sp. *glycinea
soil 582
soyabeans 482, 812, 1288, 1710, 1713, 1714, 1715, 2210, 2213, 3347, 3348, 4064, 4065, 4544, 5033, 5036
Phytophthora megasperma* f.sp. *medicaginis
laboratory tests, metalaxyl 3426
lucerne 2027, 3091, 4351
oospores, germination 3778
***Phytophthora megasperma* f.sp. *trifolii*,** clover 1085
Phytophthora megasperma* var. *sojae
asparagus 1748
soil 1748
soyabeans 483, 485, 811, 1411, 1711, 2722, 2723, 4811
***Phytophthora melonis*,** taxonomy 928
Phytophthora nicotianae
cultures 2845
eggplants 4575
Phytophthora nicotianae* var. *nicotianae
Elettaria cardamomum 3930
gloxinia 2512
tobacco 750, 756, 3229, 3230, 3231, 3651, 3982, 3983, 3984
tomatoes 1800, 3234, 3992
Phytophthora nicotianae* var. *parasitica
Actinomycetaceae, antagonism 4848
Calceolaria 1062
Capsicum 4609
Cordyline terminalis 2312
eggplants 4609
fungicide tolerance 3424
hormones 4163
laboratory tests, pesticides 4538
lemons 1515
oranges 3045
Piper betle 2066, 4962
Poncirus trifoliata 3046
Rehmannia glutinosa 3192
sesame 3934
sporangia 2312
taxonomy 928
tomatoes 1211, 4444, 4609
Phytophthora operculata*, *Avicennia marina 1232
Phytophthora palmivora
aranda 4701
cocoa 112, 113, 611, 1869, 2374, 2375, 2948, 3475
***Phytophthora palmivora* contd.**
cultures 2845
eggplants 1411
freeze drying 3791
laboratory tests, fungicides 3815
physiology 1379, 1380
Piper 4396
Piper nigrum 338, 3171, 4833
rubber 1189
soil 338
Theobroma 611
***Phytophthora syringae*,** apples 961, 1105, 1858, 2035, 3562, 3563, 4713
***Phytophthora vignae*,** cowpeas 1302, 2220
Phytotoxins, structure 4105
Picea (see Spruce)
Picloram, control, banana bunchy top virus, bananas 283
Pigeon pea sterility mosaic virus, pigeon peas 2223, 2736, 2738
Pigeon peas
air spora, India 4817
Botrytis cinerea, phytoalexins 1306
diseases
Africa 2738
India 2738
Maharashtra 2736
testing 2738
Fusarium udum
fungicidal plants 1731
plant oils 4821
transmission 2742
pigeon pea sterility mosaic virus
transmission 2223
varietal reactions 2223
soil fungistasis 2864
viruses, Florida 3712
witches broom
Florida 3712
mycoplasmas 3712
Piloderma croceum
pines, mycorrhizas 41
spruce, mycorrhizas 41
Tsuga heterophylla, mycorrhizas 1364
Pineapples
blackheart
environmental factors 2055
Queensland 2055
reviews 2055
Curvularia eragrostidis
control 3917
environmental factors 2560
infection 2560
Gibberella fujikuroi var. *subglutinans*
Brazil 3149, 3150
control 3149
cultures 1130
hosts 2054
spread 3150
Pines
air pollution
California 1238
damage 4451
electron microscopy 4026
interactions 4477
Japan 4027
ring test 4027
Virginia 4477
air spora, India 1672
Amanita muscaria, mycorrhizas, enzymes 43
Botryosphaeria dothidea
Hawaii 3668
infection 3668
Ceratocystis wageneri
California 1667
spread 1667
Cercoseptoria pini-densiflorae
India 1247
spread 1247
Cronartium, biological control 4479
Cronartium coleosporioides
environmental factors 4481
Idaho 4481
Cronartium comandrae
cones 3294
seeds 3294
taxonomy 5002
Cronartium comptoniae, epidemiology 2173
Cronartium flaccidum
Italy 1673
sampling 1673

Pines *contd.*
Cronartium flaccidum contd.
spore germination 1239
spores 1673
ultrastructure 2172
Cronartium fusiforme
breeding 3293
control 2660
environmental factors 2660
genetics 3249
infection 3297
inoculation 2664
models 3249
resistance 2664
susceptibility 3298
ultrastructure 2647, 3297
Cronartium quercuum, epidemiology 2173
Cronartium ribicola
control 1671, 4024
cultures 1241
epidemiology 1668
fungi 2663
genetics 1668
inoculation 1242
Japan 2663
Korea Republic 4024
penetration 1242
spore germination 5003
Cytospora
China 1674
control 1674
damping off
control 1240
Iraq 1240
Diplodia pinea
New Zealand 5004
testing 5004
diseases
interactions 4477
South Africa 2174
Virginia 4477
Endocronartium harknessii, biological control 4479
fungi
German Federal Republic 4485
interactions 4485
mycorrhizas 45
pine needles 422, 4485
Poland 422
seeds, separation 4478
Fusarium, mycotoxins 416
Fusarium crookwellense, geographical distribution 1831
Fusarium oxysporum, California 2171
Gibberella, mycotoxins 416
Gibberella fujikuroi var. *subglutinans*
Alabama 1669
epidemiology 1243, 1669
fertilizers 421
North Carolina 1243
Gremmeniella abietina
epidemiology 2662
Japan 5001
Ontario 2662, 5005
susceptibility 3286
Heterobasidion annosum
arthropods 1246
California 1246
control 1244
environmental factors 419, 1246
host specificity 3288
Jamaica 1244
New Mexico 4482
regeneration 3296
toxins 3289
Leptographium, pathogenicity 4022
Leptographium gallaeciae
burning 4480
France, environmental factors 4480
Portugal, environmental factors 4480
Spain, environmental factors 4480
Lophodermella arcuata
California 418
growth 418
Lophodermium kumaunicum, India 586
Lophodermium pinastri
environmental factors 1670
USSR 1670
Macrophomina phaseolina
environmental factors 3295
India 3295

Pines *contd.*
Melampsora populnea, histopathology 2665
mycorrhizas
calcium oxalate 888
culture techniques 40
fertilizers 1365
fire effects 551
growth 2815
host specificity 2813
infection 41
inoculation 4606
Korea Republic 4142
New Jersey 551
rhizosphere 44
soil fumigation 2817
Taiwan 1812
water relations 1813
Phacidium infestans
forecasting 953
USSR 953
Phellinus pini, regeneration 3296
Phlebia gigantea, California 1246
Phytophthora
antagonists 4848
Oregon 414
Pisolithus tinctorius
interactions 3765
mycorrhizas 42
estimation 2819
fertilizers 1363
growth 2291
reclamation 4139
ultrastructure 3765
root and butt rots, German Federal Republic 413
root rots, survival 2661
Scirrhia pini
genetics 4484
growth rate 4483
monoterpenes 417
New Zealand 4484
resistance 417
Sirococcus strobilinus, seed testing 420
Skeletocutis nivea var. *diluta,* Argentina 2650
stain fungi, host parasite relationships 1245
sulphur dioxide
damage 775, 1675
photosynthesis 3669
testing 775
Thelephora terrestris
mycorrhizas
growth 2291
reclamation 4139
Verticicladiella
New Mexico 4482
New Zealand 4025
pathogenicity 4022
South Africa 4025
Verticicladiella procera, pathogenicity 4477
Pinolene, spreaders 652
Pinus (see Pines)
Piper
Phytophthora palmivora
pathology 4396
species trials 4396
Piper betle
diseases, bibliographies 4961
mycorrhizas, India 57
Phytophthora nicotianae var. *parasitica,* control 2066, 4962
Sclerotium rolfsii, control 3933
Piper nigrum
black berry
control 1145
Sarawak 1145
varietal reactions 1145
diseases
Brazil 8
India 4393
mycorrhizas, India 57
Phytophthora
Indonesia 4397
virulence 4397
Phytophthora palmivora
control 3171
India 4833
survival 338
Piperazin, control, *Pleiochaeta setosa,* lupins 1090

Pireb 80, control, *Pleiochaeta setosa,* lupins 1090
Pisatin, detoxification, *Nectria haematococca* 4167
Pisolithus tinctorius
IAA 4137
oak, mycorrhizas 4141
pines 3765
mycorrhizas 41, 42, 1363, 2291, 2815, 2817, 2819, 4139
spruce, mycorrhizas 41
Pistachios, *Phellinus rimosus,* Greece 762
Pisum sativum (see Peas)
Pittosporum tobira, *Pittosporum* vein clearing virus, characteristics 4704
***Pittosporum* vein clearing virus,** *Pittosporum tobira* 4704
Plant disease control
gases 3757
trickle irrigation, reviews 4112
Plant diseases
annual reviews 536
assessment 1398
biological control 111
books 14
Brunei 1393
China 2259
climatic zones 2371
control 952, 965, 966
Denmark 6
diagnosis, books 1775
disease models 852, 2260
environmental factors 2370
epidemiology 2370
evolution 1778
forecasting 967, 2372
genetics 1778
German Democratic Republic 3738
integrated control
Europe 2931
reviews 3742
legislation, Australia 1807
management, books 2264
Middle East 2371
models 3411
mycorrhizas 552
New South Wales 845
New Zealand 1412, 2932, 4862
physiology
books 2258
conferences 2258
potassium 1781
resistance
breeding 970
conferences 4586
genetics 1330
reviews 3470
South Africa 2360
bibliographies 2935
Taiwan 956
Tasmania 959
UK 1, 2372, 4583
USSR 952
varietal reactions 3472
reviews 3471
yellows, China 1409
Plant extracts
antifungal agents 1361, 1798, 1799, 2282, 2290, 2804, 3428, 3591, 3763, 3943, 4130, 4134, 4926, 4944
antiviral agents 1167, 3456
control, tomato spotted wilt virus groundnut ring mosaic strain 3356, 3357, 3358, 3359
Plant oils, fungicidal properties 3427
Plant pathogens
air pollution, interactions 2262
antifungal agents 881
biological control 4617
books 855
laboratory tests, fungicides 4841
Mastigomycotina, books 4620
prokaryotes, conferences 2925
Pythium, soil 2322
quarantine, USA 884
resistance 3407
books 853
nitrogen 1777
South Africa 2360
ultrastructure, reviews 3450
USA, reviews 4111
Plant pathology
books 855, 2263, 2776

Plant pathology *contd.*
conferences 1773
host parasite relationships 2775
interdisciplinary research 12
methodology 533
reviews 2776, 3410
statistics 532
Thailand 1782
Plant protectants, gas chromatography 3756
Plant protection
Asia 1780
biological control, intercropping, reviews 3743
decision making
books 2759
conferences 2759
fungicides 2277
Italy 2806, 2940, 2941, 2942
Korea, conferences 849
Malaysia 1779
Mediterranean countries 2941, 4602
mycorrhizas, reviews 3434
Oceania 1780
pesticides, conferences 2792
quarantine 1806, 2941
resistance 1868
Taiwan 1925
tropics 1346
Plant viruses
control 3795
cytoplasmic inclusions, fixation 933
detection 1842, 1843, 1845
diagnosis, reviews 3457
differentiation 2915, 2916
distribution 1842, 1843
DNA 598
German Democratic Republic 3795
identification 2351
inhibitors 4632
Italy, quarantine 2805
relationships 1844
resistance, reviews 3741
responses, terminology 2906
techniques, tissue culture 3454
transmission 4634
vectors, quarantine 2806
Plantago major, gases, damage 1417
Plantineb, control, *Phyllosticta musarum,* bananas 4379
Plantomycin
control
Xanthomonas campestris pv. *citri,* citrus 3527
Xanthomonas campestris pv. *phaseoli, Vigna radiata* 5047
Plants
bacteria, frost injury 2780
fungi, succession, reviews 2346
Plantvax
activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
control
Puccinia arachidis, groundnuts 494
Puccinia helianthi, sunflowers 1149
Puccinia melanocephala, sugarcane 3971
Sclerotium rolfsii, groundnuts 3370
Tilletia indica, wheat 1891
Plasmodiophora, plant pathogens 4620
Plasmodiophora brassicae
Brassica 1, 442, 1682, 4786, 5013
Brussels sprouts 3681
cabbages 439, 1253, 3680, 3681, 4042, 4498
Chinese cabbages 2187, 2190, 2680, 2681, 4038
Cruciferae 3311
fungicides, evaluation 31
pathogenicity 441
proteins 4162
radishes 439, 5016
rape 1255, 2192, 4039
spores 4162
swedes 439, 440, 1255, 1686, 3679
turnips 2680
Plasmodiophorales, relationships 2892
Plasmopara halstedii, sunflowers 2579, 2580, 3185, 4399, 4405
Plasmopara obducens
cytology 2514
Impatiens balsamina 4326
Plasmopara viticola, grapevines 291, 295, 296, 336, 1137, 1138, 1139, 2371, 2568, 2569, 2570, 2571, 2801, 3601, 3923, 4387
Plastic mulches
control
Fusarium oxysporum, strawberries 2558, 2559
Fusarium oxysporum f.sp. *raphani,* radishes 2687
Iris, diseases 4920
watermelon mosaic virus 786
soil treatments 662, 2247, 4508
Plastics, control, diseases, cereals 2954
Platanus
Ceratocystis fimbriata, France 1659
Ceratocystis fimbriata f.sp. *platani,* control 406
Cylindrocarpon heteronema, damage 3271
Gnomonia platani 4467
damage 3271
Microsphaera platani, specialization 4469
salt, damage, UK 4467
UK 4467
Platanus hybrida, *Massaria platani,* Italy 4468
Platanus occidentalis, mycorrhizas, host parasite relationships 2307
Platanus orientalis, *Fusarium solani,* cankers 2167
Platanus racemosa, *Microsphaera alni,* measurement, leaves 3453
Plectophomella concentrica, elms 2646
Pleiochaeta setosa, lupins 1090, 2537
Plenodomus, lucerne 4710
Plenodomus meliloti, lucerne 1089
Pleospora
hosts 2888
Romania 2888
taxonomy 2888
Pleospora betae, beet 2183, 2184, 3677
Pleospora herbarum
apples 3905
Canada 74
lucerne 2536, 4348
mycotoxins 3444
onions 4825
Pleospora infectoria, tomatoes 2373
Pleospora papaveracea, CMI descriptions 84
Pleurotus membranaceus, physiology 567, 4172
Pleurotus ostreatus, *Verticillium fungicola,* California 509
Pleurotus sajor-caju, weeds, fungi, control 4082

Plum dwarf virus, cherries 4369
Plum pox virus
apricots 3568
detection 1551
peaches 4363, 4719
plums 711, 3568
stone fruits 4717
Plums
apple chlorotic leaf spot virus, particles 3571
Chondrostereum purpureum, control 974
leaf scald
bacteria 1570, 3417
identification 1570
plum pox virus
Bulgaria 711
epidemiology 711
Italy 3568
pathology 4717
Polystigma rubrum
control 3125
Iran 3125
Pseudomonas syringae pv. *morsprunorum,* strains 3570
storage decay, *Rhizopus* 4718
Tranzschelia
USSR 2552
varietal reactions 2552
Tranzschelia discolor, hosts 2944
PMA (see Phenylmercury acetate)
Poa, *Xanthomonas campestris* pv. *poae,* hosts 241
Poa alpina, brome mosaic virus, UK 2528
Poa annua
Cochliobolus sativus, control 247
Poa annua *contd.*
Puccinia brachypodii var. *poae nemoralis,* India 4831
Sclerotium rolfsii, control 1541
triadimefon, environmental factors 1083
Poa nemoralis
Tilletia sabaudiae
France 4852
spores 4852
Poa pratensis
air pollution
damage 971, 3082
varietal reactions 3082
Cochliobolus sativus, herbicides 4344
Drechslera poae, spore dispersal 246
Poaceae, brome streak mosaic virus, hosts 4335
Podosphaera leucotricha
apples 264, 267, 268, 702, 872, 974, 1101, 1103, 1104, 2033, 2034, 2539, 2544, 3112, 3113, 3116, 3452, 3560, 3561, 4359, 4595, 4713, 4714
maintenance 2034
Malus 1563
Podosphaera tridactyla, almonds 4368
Poinsettia cryptic virus, *Euphorbia pulcherrima* 1531
Poinsettia mosaic virus, *Euphorbia pulcherrima* 1531, 3539
Poland
barley
Erysiphe graminis 2424
Rhynchosporium secalis 3504
faba beans, *Botrytis fabae* 2718
larch, fungi 1219
oak
fungi 4015
Polyporus adustus 3269
pines, fungi 422
poplars, *Melampsora larici-populina* 407, 410
potatoes
Alternaria solani 3635
diseases 3612
Fusarium 3633
Phytophthora infestans 3947
potato leaf roll virus 3621
potato virus M 3942
potato virus S 3623
potato virus Y 2094
Synchytrium endobioticum 3951
viruses 3616
wheat
Erysiphe graminis 2409
Puccinia recondita 2404
Pollaccia letifera, poplars 2657
Pollaccia radiosa, poplars 2657
Pollaccia ramulosa, poplars 2657
Pollacia elegans, poplars 4018
Pollen
activity
Alternaria solani 1357
Claviceps fusiformis, Pennisetum americanum 2451, 4893
Tolyposporium penicillariae, Pennisetum americanum 4284
antifungal agents 2802
conferences 531
fungicides, toxicity 4354, 4355
Pseudoperonospora cubensis, Luffa acutangula 3320
transmission, cherry leaf roll virus 1661
Polyalthia longifolia, plant extracts, antifungal agents 2804
Polycarbacin
control, wheat, root rots 989
laboratory tests, *Pyrenophora dictyoides* 240
Polyethylene film
control, soil fungi 3784
potatoes, viruses 3201
Polyethylene glycol, seed treatments, *Nicotiana xanthi* 4857
Polygonum persicaria, *Rhizoctonia solani,* Netherlands 1177
Polymycin, control, potatoes, diseases 610
Polymyxa betae
Amaranthus retroflexus 435
beet 435
viruses 4634
transmission, beet necrotic yellow vein virus 932

Polymyxa graminis
clover 4929
transmission
barley yellow mosaic virus 4634
wheat soilborne mosaic virus 932
ultrastructure 2331
Polynesia, crops, diseases 3735
Polyoxin
control, *Heterobasidion annosum* 1218
inhibition, wood destroying fungi 1249
Polyoxin B, activity, *Alternaria kikuchiana* 4598
Polyporaceae
China 1832
taxonomy 1832
Polyporus adustus, oak 3269
Polyporus betulinus, *Betula pubescens* 3258
Polyporus minor, forest trees 3252
Polyporus pekingensis, nomenclature 1832
Polyporus rosulatus, nomenclature 1832
Polyporus subfloriformis, forest trees 3252
Polyporus submollis, forest trees 3252
Polyporus subperennis, forest trees 3252
Polyram-combi
control, *Ceratocystis fimbriata,* coffee 3876
foliar uptake 876
soil treatments 65
Polyschema olivacea, *Schoenoplectus triqueter* 4353
Polyscias fruticosa, *Alternaria panax,* Florida 3074
Polyscytalum pustulans, potatoes 1179, 2080, 2103, 2104, 2111, 2615, 3634, 4411, 4747
Polystigma rubrum, plums 3125
Pome fruits
Chondrostereum purpureum, biological control 3097
diseases
Italy 3100
quarantine 3100
Erwinia amylovora
biology 701
control 701
detection 1095
epidemiology 1095
spread 701
symptoms 701
viruses
certification 3101
Italy 3101
Pomegranates
Beltraniella humicola, India 4725
fungicidal properties 1360
Fusarium fusarioides, India 4726
Poncirus trifoliata
Phytophthora nicotianae var. *parasitica,* varietal reactions 3046
Pierces disease bacterium, symptoms 671
Poplar mosaic virus, relationships 1844
Poplars
air pollution, damage 971
Coniophora puteana, decay 430
Cryptodiaporthe populea
control 4472
symptoms 4472
diseases, Italy 4018
Marssonina populi
control 4018
Italy 4018
Melampsora larici-populina
Australia 1660
biological control 1660, 4017
cultures 3273
epidemiology 407, 1660
host parasite relationships 408
hyperparasitism 772
metabolites 409
Poland 407, 410
resistance 410
Melampsora medusae
environmental factors 4016
Ontario 3272
photoperiod 4470
testing 3274
varietal reactions 2168, 3274, 4016
Melampsora populnea
environmental factors 104
USSR 104
microorganisms, wounds, control 4013
mycorrhizas, Korea Republic 4142
Poplars *contd.*
Phomopsis macrospora, aetiology 4471
Pollaccia, specialization 2657
Pseudomonas syringae
environmental factors 1227
Netherlands 1227
Trametes trogii, Greece 762
Valsa sordida
histochemistry 2658
histopathology 2658
viruses
characterization 1226
symptoms 1226
Poppy (see *Papaver*)
Poria hypolateritia, tea 1200, 1201
Poria medulla-panis, trees 4008
Poria placenta
spore germination 2649
timber 431
Poria tenuis, spore germination 2649
Portugal
Anemone, Leptothyrium anemones 2875
culture collections 2329
fungi 2875
Geranium, Uromyces geranii 2875
grapevines, *Botrytis cinerea* 317
hops, *Pseudoperonospora humuli* 2874
Peronosporaceae 2874
pines, *Leptographium gallaeciae* 4480
roses, *Phragmidium tuberculatum* 2875
tomatoes, tomato bushy stunt virus 4771
Portulaca oleracea, *Gigaspora,* Texas 2296
Potassium
activity, Uredinales 4170
deficiencies, grapevines 4391
Plasmodiophora brassicae, swedes 1686
Potato (Andean) latent virus, potatoes 3940
Potato aucuba mosaic virus
Cyphomandra betacea 1587
potatoes 3940
Potato deforming mosaic virus, potatoes 2100
Potato leaf roll virus
Physalis floridana 1845
potatoes 935, 1164, 1613, 1845, 2082, 2086, 2087, 2088, 2089, 2095, 2595, 2596, 2597, 3203, 3616, 3618, 3619, 3621, 3937, 3940, 4409, 4413, 4414, 4747, 4750, 4753, 4968, 4970
RNA 1163
transmission 1400, 3796
Potato mop-top virus, potatoes 1165
Potato spindle tuber viroid
characteristics 2902
potatoes 1170, 1171, 2098
RNA 2918
testing 3625
tomatoes 2368, 3459, 3794
Potato virus A 1166
Nicotiana clevelandii 3209
Physalis angulata 603
potatoes 603, 1161, 3618, 3619, 4409, 4750
Potato virus M
inoculation 2905
potatoes 2085, 2099, 2593, 2594, 3206, 3458, 3615, 3616, 3617, 3940, 3942, 4416
purification 3202
Potato virus S
Chenopodium amaranticolor 3622
Chenopodium quinoa 3622
Chenopodium rubrum 3622
inoculation 2905
potatoes 352, 2083, 2085, 2594, 3204, 3458, 3615, 3617, 3622, 3623, 3940, 4750, 4751, 4968, 4969
purification 3202
relationships 1844
Potato virus S Andean strain, potatoes 4971
Potato virus U
hosts 3208
potatoes 3208
Potato virus X
Capsicum 3390
Chenopodium amaranticolor 1167
Datura stramonium 3188
detection 3614
inhibition 2137
inoculation 2905
interactions 600, 601
Potato virus X *contd.*
potatoes 352, 354, 1164, 1168, 2090, 2594, 2598, 2599, 3458, 3615, 3617, 3619, 3620, 3937, 3940, 3941, 4409, 4415, 4749, 4751, 4754, 4968, 4969
tobacco 751, 934, 3618, 3797
tomatoes 3652
Potato virus Y 1166
Capsicum 3737, 4086, 4567
detection 1551, 2096, 3614
eggplants 521
inoculation 2905
potatoes 355, 1161, 1164, 1169, 1614, 2081, 2082, 2083, 2085, 2091, 2092, 2093, 2094, 2095, 2097, 2593, 2594, 2598, 2600, 2601, 3205, 3458, 3615, 3616, 3617, 3618, 3619, 3620, 3624, 3940, 4415, 4747, 4749, 4750, 4968
relationships 1720
Solanum berthaultii 2092
tobacco 379, 750, 751, 3226, 3977, 4763
tomatoes 3235, 3652, 3987
transmission 4634
Potato yellow dwarf virus
Nicotiana rustica 2356
serological diagnosis 1854
Potatoes 1166
Agrobacterium tumefaciens, growth regulators 2123
Alternaria alternata, hosts 1620
Alternaria solani
aerial photography 356
control 610, 1619, 4972
hosts 1620
interactions 351
Poland 3635
toxins 2366
varietal reactions 3635
Bacillus mesentericus, testing 1187
bacteria, vascular discoloration 3937
bacterial diseases
control 2120
pathogens 4422
beet western yellows virus, Tasmania 353
black spot, tissues 2124
Botrytis cinerea, symptoms 366
Calyptella campanula, infection 2641
Corynebacterium michiganense pv. *sepedonicum*
China 4758, 4978
control 4758
detection 1623, 2621, 3956
integrated control 4978
interactions 2621
Italy 1623
light 4757
symptoms 3956
yield losses 4758
diseases
Argentina 4099
biological control 3743
biology 1160
Colombia 2591
control 1159, 2081
diagnosis 350
environmental factors 3612
interactions 4967
Ireland 3613
Northern Ireland 1161
Poland 3612
resistance 3613
seed tubers 1159
control 3944
UK 4411
Senegal 1793
Switzerland 4409
symptoms 2591
testing 1172
UK 4747
varietal reactions 2081, 4409
yield losses 3612, 4967
Erwinia
contamination 2119
control 1158, 1186
environmental factors 2118
phytoalexins 864
spread 2118
susceptibility 1621
UK 2118, 2119
Erwinia carotovora
environmental factors 3214
infection 4096

Potatoes *contd.*
Erwinia carotovora contd.
interactions 731
Rhizobium 3214
Erwinia carotovora ssp. *atroseptica*
antagonists 1161
control 955, 1186
diagnosis 1184
enzymes 3213
growth 4981
infection 3638
inoculation 4979
resistance 2592
spread 2620
testing 1187, 2121, 3638, 4979
UK 1612
USSR 955
varietal reactions 1185, 1186, 2121, 3638, 4980
Erwinia carotovora ssp. *carotovora*
control 2120
environmental factors 1622
enzyme activity 3639
host parasite relationships 1183
infection 2079
resistance 1183
spread 2620
Erwinia chrysanthemi
differentiation 2624
hosts 2624
New South Wales 845
resistance 1624, 2623
fungi, vascular discoloration 3937
fungicidal properties 3943
fungicide residues, models 1615, 1616
Fusarium
control 1158, 2613
environmental factors 1618
interactions 731
pathogenicity 3633
Poland 3633
resistance 2592
storage decay 3633
testing 1178
Fusarium crookwellense, geographical distribution 1831
Fusarium roseum, physiology 2614
Fusarium solani var. *coeruleum*
control 2102
environmental factors 2612
physiology 3632
Fusarium trichothecioides, Hungary 3211
Gibberella cyanogena
control 2102
interactions 731, 3626
Gibberella pulicaris
histopathology 3954
resistance 3954
Helminthosporium solani
growth 3955
infection 2080, 2110
maintenance 3955
sources 2110
herbicides, activity, symptoms 3938
hollow heart, seed tubers 370
oxidants
damage 2125
resistance 3216
yield losses 2125
ozone
damage, interactions 351
genetics 1188
resistance 1188, 3216
varietal reactions 3217
yield losses 3217
Phoma eupyrena
inoculation 4421
pathogenicity 4421
Phoma exigua
control 368, 1180
infection 4421
survival 1180
USSR 1180
Phoma exigua var. *foveata*
control 1161, 2102, 2103, 2116, 3636
detection 1181, 3212
environmental factors 1181, 1182
epidemiology 1161
identification 367
infection 2079, 2080, 2115
interactions 2112, 3626
pathogenicity 4864

Potatoes *contd.*
Phoma exigua var. *foveata contd.*
Scotland 2104
seed tubers 2114
spread 1182, 2114
testing 2616
toxins 2081
UK 1612
varietal reactions 2112, 2616
Phytophthora, ultrastructure 1411
Phytophthora infestans
aerial photography 356
assessment 4419
Burundi 735
cell membrane potential 2603
control 360, 362, 610, 734, 871, 872, 967, 1175, 2107, 2602, 2609, 2796, 3949, 4972
economics of control 3210
environmental factors 3947
epidemiology 733
fertilizers 2605
forecasting 967, 2606, 2607, 2608, 3948
fungicide tolerance 1161, 2107, 3950, 4596
German Democratic Republic 3948
haustoria 4974
histochemistry 361
host parasite relationships 1173
hypersensitivity 357, 358, 3946
infection 4973
Israel 733, 2605, 2607, 4419, 4420
lipids 4975
models 3210
Netherlands 3950
Norway 2608
phytoalexins 2105, 3946, 4418
Poland 3947
races 1174, 1860
rishitin 4975
Scotland 1174
simulation 3948
sporulation 2605, 3627
susceptibility 359
Switzerland 2606
testing 3629
ultrastructure 3628
USSR 1175
varietal reactions 2106, 4974
yield losses 3947, 4420
Polyscytalum pustulans
control 2103, 2615
infection 2080, 2111
Scotland 2104
sources 2111
symptoms 1179
testing 3634
varietal reactions 3634
potato deforming mosaic virus
Argentina 2100
symptoms 2100
transmission 2100
potato leaf roll virus
Bulgaria 2597
control 4970
Cuba 4413
detection 2082, 2087, 2089, 2595, 4414, 4753
identification 3621
Israel 2087, 2088
Latvian SSR 1613
Peru 3203
Poland 3621
protection 2088
selection 2596
symptoms 2597
transmission 2086, 3203, 4970
UK 4970
varietal reactions 1613
yield losses 2597
potato mop-top virus
symptoms 1165
varietal reactions 1165
potato spindle tuber viroid, detection 732, 1170, 1171, 2098
potato virus A, detection 603
potato virus M
characteristics 2099
detection 3206
Poland 3942
testing 3942

Potatoes *contd.*
potato virus S
assays 352
certification 3204
control 4751
Netherlands 3622
Poland 3623
properties 3622
UK 3622
varietal reactions 3623
potato virus S Andean strain, USA 4971
potato virus U
characterization 3208
hosts 3208
Peru 3208
potato virus X
antiviral plants 2090
assays 352
Chile 3941
control 354, 4751
detection 3614
estimation 4754
genetics 2599
interactions 4749
Ireland 1168
strains 1168, 2599
symptoms 2599
testing 3941
varietal reactions 3620
Venezuela 4415
potato virus Y 4749
detection 2082, 2093, 3614, 4749
diagnosis 355, 1169, 2091
forecasting 2094
inoculation 2601
interactions 4749
Latvian SSR 1614
Netherlands 3624
plant analysis 2600
Poland 2094
resistance 2600
transmission 2092, 2097, 3205, 3624
varietal reactions 1614, 3620
Venezuela 4415
Pseudomonas, antagonism 1161
Pseudomonas fluorescens, testing 1187
Pseudomonas solanacearum
agglutinins 2622
biological control 4982
breeding 4759
control 2122
indicator plants 3985
testing 2122
Uruguay 3215
purple top wilt
mycoplasmas 2362
Zimbabwe 2362
Rhizoctonia solani
California 365
control 365, 872, 3631, 4756
crop loss 365
environmental factors 3631
glycoalkaloids 4977
infection 2080, 2109
insecticides 1617
Netherlands 1177, 3953
New South Wales 3631
sources 1177, 2109
suppression 3953
varietal reactions 1161
Sclerotium rolfsii, control 2113
seed tubers
fungi, control 3945
fungicides 4410
reproduction 4748
soil fungi, control 3784
Spongospora subterranea
biology 4096
control 4096
cultures 736
storage decay, control 1867, 3944
Streptomyces scabies
control 369, 2618
enzymes 2619
reducing sugars 2117
reviews 369
testing 3637
varietal reactions 3637
virulence 2619
Synchytrium endobioticum
biological control 4976
German Federal Republic 4755
infection 364

Potatoes *contd.*
Synchytrium endobioticum contd.
infection *contd.*
seed tubers 3952
Newfoundland 4976
Poland 3951
seed tubers 364
survival 4755
testing 2108, 3951
ultrastructure 1176
virulence 3630
zoosporangia 363
tobacco mosaic virus
protoplasts 4417
resistance 4417
tobacco rattle virus
control 3207
detection 2924
diagnosis 1163
Florida 3207
symptoms 1165
varietal reactions 1165
tobacco streak virus
Peru 2101
symptoms 2101
transmission 2101
Trichothecium roseum, storage decay 2617
Verticillium albo-atrum
insecticides 1617
survival 2611
Verticillium dahliae
interactions 731
serological diagnosis 2610
viroids, reviews 4752
viruses
antiviral agents 3618
breeding 1164, 3619
Chile 3940
clones 4969
control 2593
detection 1845, 2083, 3940, 4416
determination 3615
diagnosis 3458
distribution 2083
elimination 1162, 2594, 3939
environmental factors 3201
epidemiology 4968
German Democratic Republic 3938
infection 2095
inoculation 935
insecticides 2593
interactions 3617
Israel 2095
Italy 1162
Poland 3616
polyethylene film 3201
protoplasts 935
seed tubers
elimination 4412
Italy 4412
serological diagnosis 2084
spread 4968
symptoms 2085, 3938
synergism 2598
testing 4750
transmission 1166
USA 4968
varietal reactions 1164, 2085, 3616, 4969
vascular discoloration 3937
vectors 1166
Poushamycin, control, *Xanthomonas campestris* pv. *citri,* lime (citrus) 673
Previcur N
activity, Peronosporales 2801
control
Phytophthora 1800
Phytophthora palmivora, cocoa 2948
Pythium 1800
soil treatments 2512
Previcur S 70, activity, Peronosporales 2801
Pritchardia thurstonii, lethal yellowing, transmission 4408
Probenazole, control, *Pyricularia oryzae,* rice 2470
Proceedings (see Conferences)
Prochloraz
control
avocados, storage decay 1127
Ceratocystis paradoxa, sugarcane 2131
Monilinia fructicola, peaches 3572
Prochloraz *contd.*
control *contd.*
mushrooms, diseases 1314, 4558
Phoma exigua var. *foveata,* potatoes 2116
Polyscytalum pustulans, potatoes 2615
potatoes, diseases 2102
residues, mushrooms 4558
Procida Bordeaux
control
coffee, diseases 4308
Glomerella cingulata, coffee 3529
Procymidone
activity
faba beans 4596
onions 4596
control
Botrytis cinerea
grapevines 305, 306, 309, 312, 2062, 2573
strawberries 3137
Dothiorella aromatica, avocados 4945
Fusarium, potatoes 2613
Glomerella cingulata, avocados 4945
Monilinia fructicola, peaches 1109
Monilinia laxa, stone fruits 4938
Phoma exigua var. *foveata,* potatoes 3636
fungicide tolerance
Botrytis cinerea 2151, 2946
Monilinia fructicola 2042
Monilinia laxa 4938
Propamocarb
activity, *Pythium butleri* 2735
control
cowpeas, damping off 2735
Phytophthora, Calceolaria 1062
Phytophthora nicotianae var. *parasitica,* oranges 3045
Phytophthora palmivora, cocoa 2948
Pseudoperonospora humuli, hops 1595
soil treatments 3704
Propamocarb hydrochloride
control
Phytophthora 1800
Pythium 1800
Propiconazole
activity, grapevines 4959
control
Erysiphe graminis, barley 3501
wheat 1443
Marssonina populi, poplars 4018
Mycosphaerella graminicola, wheat 618
Puccinia porri, leeks 5054
Puccinia recondita, wheat 618
Pyrenophora teres, barley 3503
Uncinula necator, grapevines 4959
Uromyces viciae-fabae, faba beans 4808
laboratory tests, *Leptosphaeria coniothyrium* 1120

Propineb
control
Alternaria crassa, Datura candida 1152
Hemileia vastatrix, coffee 1979
Septoria apiicola, celery 2690
Setosphaeria rostrata, tomatoes 2153
foliar uptake 876
laboratory tests, *Setosphaeria rostrata* 2153
Propionic acid, control, wheat, storage decay 1435
Propylene oxide, soil treatments 4616
Prosopis juliflora, rhizosphere fungi, Madhya Pradesh 4452
Protea cynaroides, Pseudomonas syringae, Victoria 3075
Prothiocarb
activity
Peronosporales 2801
Trichoderma harzianum 581
soil treatments 2512
Protomyces macrosporus, *Coriandrum sativum* 4738
Prune dwarf virus
cherries 4370
detection 3550
serology 3550
squash 1845
stone fruits 3913
Prunus
American plum line pattern virus
characteristics 2040
serological diagnosis 2040
Prunus amygdalis (see Almonds)
Prunus armeniaca (see Apricots)
Prunus avium (see Cherries)
Prunus cerasifera, plum pox virus, pathology 4717
Prunus cerasus (see Cherries)
Prunus domestica (see Plums)
***Prunus* necrotic ringspot virus**
almonds 2039
cherries 2039, 4370
detection 3550
hops 3604
roses 1997
serology 3550
stone fruits 3913
Prunus persica (see Nectarines; Peaches)
Prunus salicina, Eutypa armeniacae, Australia 4863
Prunus triloba, Chondrostereum purpureum 3058
Prunus virginiana, X-disease, stomatal resistance 3468
Pseudocercospora aromatica, avocados 4947
Pseudocercospora berberisvulgarae, Berberis vulgare 4624
Pseudocercospora dovyalidis, Falcourtia indica 4625
Pseudocercospora indica, Zepharanthes rosea 912
Pseudocercospora neriella, Nerium indicum 4625
Pseudocercospora psophocarpi, *Psophocarpus tetragonolobus* 2227
Pseudocercospora purpurea, avocados 3587, 4945
Pseudocercospora triumfettigena, Triumfetta rhomboides 4625
Pseudocercosporella herpotrichoides
Aegilops ventricosa 3495
barley 4230, 4232
cereals 974, 986, 3478, 3817
rain, isolation 2977
rye 3843
soil, isolation 2977
spore dispersal 1399
wheat 144, 633, 979, 985, 989, 2359, 2413, 2976, 3480, 3493, 3494, 3495, 3830, 4230, 4232, 4238, 4650, 4654, 4659
isolation 2977
Pseudocochliobolus, nomenclature 2338
Pseudocochliobolus australiensis, *Trianthema portulacastrum* 1766
Pseudomonas
activity, *Trichoderma hamatum* 4516
antagonism
Ceratocystis fagacearum 4996
Ceratocystis fimbriata 4996
Ceratocystis ulmi 4996
Erwinia carotovora ssp. *atroseptica* 1161
caraway 3187
control
Pseudomonas solanacearum
groundnuts 3755
tobacco 3755
tomatoes 3755
cowpeas 3710
freezing 1783
fruit 3094
grapevines 3747
isolation 3747
lettuce 2671
oats 644
octopine 1345
potatoes 1161, 4422
seed treatments, wheat 3829
soil 1345
soyabeans 2727
Pseudomonas aeruginosa, onions 5058
Pseudomonas avenae, morphology 4124
Pseudomonas cepacia
enzymes 24
laboratory tests 2272
mutants 23
Pseudomonas cichorii
Capsicum 1323
Chrysanthemum 3538

Pseudomonas cichorii *contd.*
isolation 2235
lettuce 2235
Pelargonium 3543
Pseudomonas corrugata, tomatoes 6, 2155, 3656
Pseudomonas fluorescens
control, *Ceratocystis ulmi,* elms 404
potatoes 1187
tobacco 4769
Pseudomonas gingeri, mushrooms 822
Pseudomonas gladioli* pv. *alliicola, onions 1678, 1744, 2749, 5058
Pseudomonas glumae, rice 2488
Pseudomonas pisi, tobacco 2141
Pseudomonas putida, soil 1824
Pseudomonas rubrilineans, sugarcane 740
Pseudomonas rubrisubalbicans, sugarcane 3405
Pseudomonas solanacearum
Croton sparsiflorus 1768
cucumbers 4049
cultures 2273
Cyphomandra betacea 724
eggplants 3405, 3736
Geranium 3736
groundnuts 3755
hosts 3985
mutants 3755
Pelargonium 3405
Physalis minima 1768
physiology 1790
potatoes 2122, 2622, 3215, 4759, 4982
soil 4123, 4431, 4432, 4433
soyabeans 2728, 3340
survival 1790, 4123
sweet potatoes 1763
Symphytum 2538
tobacco 1205, 1630, 2622, 3755, 3985, 4431, 4432, 4433, 4594
tomatoes 1214, 1768, 2154, 2643, 3405, 3736, 3755, 4100, 4594, 4993
Pseudomonas solanacearum* var. *asiaticum
eggplants 1758
soil 1758
Pseudomonas syringae
antagonism, *Ceratocystis ulmi* 4457
beans (*Phaseolus*) 22, 3696
cherries 4371
coffee 4308, 4314
elms 4457
laboratory tests, fungicides 1347
lupins 4711
ornamentals 2000
pears 2539
physiology 1336
plasmids 1791
poplars 1227
preservation 3696
Protea cynaroides 3075
stone fruits 1576
toxins 1791
Zizania aquatica 4286
Pseudomonas syringae* pv. *atrofaciens
barley 4273
crops 4273
wheat 634, 3831
Pseudomonas syringae* pv. *coronafaciens
maize 176
oats 644
Pseudomonas syringae* pv. *glycinea
bacteriophages 3416
cucumbers 4049
soyabeans 493, 1269, 1292, 1294, 1718, 1719, 2728, 3340, 3350, 5037
Pseudomonas syringae* pv. *lachrymans
cucumbers 791, 1678, 2200, 2671, 2702, 4049, 4791
tobacco 1206
Pseudomonas syringae* pv. *morsprunorum
cherries 3570
plums 3570
stone fruits 1576
Pseudomonas syringae* pv. *persicae, peaches 3127
Pseudomonas syringae* pv. *phaseolicola
beans (*Phaseolus*) 468, 796, 805, 1269, 1678, 2711, 3336, 3337, 3696, 4054, 4528, 4806, 4839
biochemistry 16
cucumbers 4049
plasmids 866
preservation 3696
Pseudomonas syringae* pv. *phaseolicola *contd.*
soyabeans 5037
toxins 4839
Pseudomonas syringae* pv. *pisi
peas 1269
tobacco 382, 1641, 1642, 3232, 3233, 4769
Pseudomonas syringae* pv. *savastanoi
genetics 4592
olives 4384, 4728
virulence 4592
Pseudomonas syringae* pv. *syringae
apricots 1577, 2554
barley 3505
cucumbers 4049
maize 175
soyabeans 1293, 5037
tomatoes 4447
toxins 4122
wheat 1451
Pseudomonas syringae* pv. *tabaci
buckwheat 4645
plasmids 4593
tobacco 383, 644, 3220, 3976, 4434, 4769
Pseudomonas syringae* pv. *tagetis, toxins 3754
Pseudomonas syringae* pv. *tomato
cucumbers 4049
tomatoes 392, 759, 963, 2157, 2158, 2266, 3246, 3247, 3737, 3995, 3996, 3998, 4446, 4447
toxins 867
Pseudomonas syringae* pv. *zizaniae, *Zizania aquatica* 4286
Pseudomonas syringae* ssp. *savastanoi* pv. *fraxini, *Fraxinus* 1223
Pseudomonas tolaasii, mushrooms 821, 822, 1741, 2236, 2744
Pseudomonas viridiflava, forage legumes 4928
Pseudoperonospora cubensis
cucumbers 3814, 4030
Luffa acutangula 3320, 4796
melons 788, 1793, 2699, 3682, 4048
Pseudoperonospora humuli, hops 1595, 2801, 2874, 3168, 3927, 3928, 4735
Pseudopeziza medicaginis, lucerne 256, 3896, 3899, 4348
Pseudopeziza medicaginis* f.sp. *sativae, lucerne 256
Pseudopeziza tracheiphila, grapevines 291, 336, 2568, 3925, 3926
Pseudoseptoria bromigena, Canada 74
Pseudoseptoria stomaticola, Canada 74
Pseudotsuga menziesii
fungi, roots 3300
Fusarium avenaceum
Oregon 3670
symptoms 3670
Fusarium oxysporum
damping off 3299
induced resistance 3430, 3431
seed 3299
spread 3299
Gibberella pulicaris
Oregon 3670
symptoms 3670
Laccaria laccata, mycorrhizas, protection 3430, 3431
Leptographium, pathogenicity 4022
mycorrhizas
environmental factors 2292
host specificity 2813
USA 2292
Phaeocryptopus gaeumannii
control 5006
infection 5007
Washington 5007
Phytophthora, Oregon 414
Phytophthora megasperma, morphology 2890
Pythium irregulare, induced resistance 3431
Rhabdocline, Michigan 4486
Rhabdocline pseudotsugae, control 776
root and butt rots, German Federal Republic 413
Verticicladiella, pathogenicity 4022
Psidium guajava (see Guavas)
Psophocarpus tetragonolobus
cucumber mosaic virus
Florida 815
Psophocarpus tetragonolobus *contd.*
cucumber mosaic virus *contd.*
serological diagnosis 815
diseases, Papua New Guinea 2227
Pteridium aquilinum, *Ascochyta pteridium,* measurement, leaves 3453
Pterospora andromedea, mycorrhizas, electron microscopy 897
Puccinia
barley 115
cereals 878, 2954, 2956
Greece 4219
Japan 72
Mexico, books 1392
sugarcane 2625
wheat 115, 2394, 4241, 4659
Puccinia allii, leeks 1
Puccinia antirrhini, *Antirrhinum* 878
Puccinia arachidis
Arachis 3372
groundnuts 494, 497, 813, 1296, 1722, 2729, 3284, 3364, 3366, 3367, 3368, 3372, 3374, 4070, 4551, 5043
Puccinia asparagi, asparagus 518
Puccinia brachypodii* var. *poae nemoralis, *Poa annua* 4831
Puccinia canaliculata, *Cyperus esculentus* 2755
Puccinia carthami, safflower 3172
Puccinia chondrillina, spore germination 3441
Puccinia coronata
Avena 4274, 4275
Festuca arundinacea 244
Lolium 4342
Lolium multiflorum 2022, 4707
Lolium perenne 2022, 2525
oats 642, 643, 1006, 1476, 1906, 1907, 1908, 2432, 2433, 2434, 2987, 2988, 4244, 4274, 4275, 4669, 4882
Rhamnus cathartica 2987
Puccinia dianthi, carnations 3814
Puccinia digitariae, *Digitaria eriantha* 4339
Puccinia graminis
Agropyron elongatum 3824
Avena 4274, 4275
barley 983, 1460
cereals 4227, 4235
Cladobotryum varium, hyperparasitism 3482
cultures 1437
Czechoslovakia 4235
Dactylis glomerata 691, 1552, 2530, 4345
ecology 4235
grasses 4227, 4235
oats 845, 1007, 4274, 4275
physiology 571, 2316, 2317
rye 983
spore germination 4170
taxonomy 4235
triticale 991
wheat 118, 128, 129, 130, 131, 132, 133, 134, 616, 621, 845, 983, 991, 992, 1438, 1881, 1882, 1883, 1884, 2381, 2395, 2396, 2397, 2398, 2399, 2962, 2963, 2964, 2965, 2971, 3479, 3483, 3824, 3825, 4242, 4243, 4244, 4245, 4246, 4873, 4874
Puccinia helianthi, sunflowers 1149, 2581, 3179, 3180, 3182
Puccinia hordei
barley 115, 116, 150, 154, 155, 635, 636, 1462, 1874, 1875, 1899, 1901, 2416, 2417, 3837, 4262, 4263
spores, counting 2343
wheat 1874, 1875, 1878
Puccinia horiana, *Chrysanthemum* 3814, 3884
Puccinia iridis, spore germination 3441
Puccinia kuehnii, sugarcane 3964
Puccinia melanocephala
bamboos 3219
oats 4760
sugarcane 373, 374, 1192, 1628, 2131, 3219, 3405, 3960, 3971, 4760
wheat 4760
Puccinia menthae
Mentha 1600
peppermint 1600
Puccinia pelargonii-zonalis, *Pelargonium* 4866

Puccinia penniseti*, *Pennisetum americanum 3852
***Puccinia polysora*, maize** 1479, 4886
***Puccinia porri*, leeks** 5054
***Puccinia punctiformis*, spore germination** 3441
***Puccinia purpurea*, sorghum** 178, 2449
Puccinia recondita
barley 1874
cereals 1
spores, counting 2343
triticale 617, 1441
wheat 104, 118, 128, 135, 136, 614, 618, 620, 622, 623, 845, 993, 994, 995, 996, 997, 998, 1439, 1440, 1874, 1885, 1886, 1887, 1888, 2381, 2391, 2393, 2395, 2400, 2401, 2402, 2403, 2404, 2405, 2962, 2966, 2967, 2971, 3412, 3484, 3826, 4201, 4242, 4243, 4244, 4247, 4248, 4249, 4656, 4658, 4659, 4660
***Puccinia sorghi*, maize** 2439, 2992, 3845, 4886
Puccinia striiformis
barley 156, 1002, 1423, 1899, 1900, 3500, 4261, 4262
Canada 2885
cereals 1, 845, 1877
Dactylis glomerata 1552, 4345
spores, counting 2343
storage 1
wheat 116, 137, 138, 620, 848, 1889, 1890, 2391, 2393, 2962, 2968, 2971, 3827, 4242, 4243, 4244, 4250, 4656, 4875
Puccinia substriata* var. *penicillariae*, *Pennisetum americanum 2451
***Puccinia trabutii*, cucumbers** 3327
Puerto Rico, sorghum, seedborne fungi 186
Pulses, diseases, Alberta 1269
Pumpkin mosaic virus, squash 1260
Punjab
fungi 4190
groundnuts, Indian peanut clump virus 3361
Hypoxylon uniapiculatum 4191
rice
Fusarium 4904
Sarocladium oryzae 4904
sorghum, *Colletotrichum graminicola* 180
***Pycnoporellus fibrillosus*, timber** 393
***Pycnoporus sanguineus*, forest trees** 4029
Pyracarbolid
activity, fruit trees 3099
control
coffee, diseases 4311
Hemileia vastatrix, coffee 1048, 1979
Pyrazoles, control, *Rhizoctonia solani*, cotton 1991
Pyrazophos
control
Podosphaera leucotricha, apples 268, 1104, 4359
Sphaerotheca fuliginea, cucumbers 2696
***Pyrenochaeta*, rice** 3524
***Pyrenochaeta lycopersici*, tomatoes** 389, 3236, 3245, 3737, 3994
***Pyrenochaeta terrestris*, onions** 513, 825
Pyrenopeziza brassicae
Brassica 1
cauliflowers 2191
Pyrenophora bromi*, *Bromus inermis 3893
Pyrenophora dictyoides
cultures 240
Lolium multiflorum 4921
Pyrenophora erythrospila*, *Agrostis 3892
Pyrenophora graminea
barley 161, 163, 1472, 1473, 1474, 1904, 2428, 2429, 2431
cereals 2387
pigments 161
Pyrenophora teres
barley 161, 162, 164, 1326, 1460, 1905, 2428, 2430, 3503, 4644, 4654, 4881
cereals 974
oats 4644
pigments 161
***Pyrenophora teres* f. *maculata*, barley** 4267
***Pyrenophora teres* f. *teres*, barley** 4267
***Pyrenophora tritici-repentis*, wheat** 1447, 2975
Pyricularia
biology 3448
Eleusine coracana 1944
genetics 3448
Gramineae 585
Pyricularia grisea (see *Magnaporthe grisea*)
Pyricularia oryzae
Eleusine coracana 2457, 3026
enzymes 196
genetics 3026
laboratory tests, fungicides 2797
mating 2473
oats 642
rice 7, 195, 655, 656, 657, 658, 659, 660, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1502, 1503, 1504, 1928, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 3006, 3009, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3522, 3736, 3854, 3855, 3856, 4289, 4290, 4291, 4292, 4293, 4686, 4901, 4902, 4903
Pyricularia penniseti
Pennisetum americanum 187, 4680
physiology 4680
(2-Pyridylthio)methyl benzoate *N*-oxides, laboratory tests, fungi 3420
Pyrocatechol, control, tomatoes, diseases 610
Pyroquilon, control, *Pyricularia oryzae*, rice 3015
Pyroxyfur, control, mushrooms, diseases 2236
***Pyrus calleryana*, *Erwinia amylovora*, symptoms** 1106
Pyrus communis (see Pears)
Pythiaceae, plant pathogens 4620
Pythium
Amaranthus 4224
apples 263
Araucaria 778
Araucaria heterophylla 779
beans (*Phaseolus*) 1793, 3736
bedding plants 108, 3059
beet 3677
cabbages 877
Capsicum 877
cereals 2382
Cicer arietinum 2225
control 1800
cotton 212
crops 1864
Eucalyptus 4463
laboratory tests, fungicides 3420, 4846
lawns and turf 3546
maize 2445
melons 1268
metalaxyl, activity 1355
peas 4516
rice 2476
soil 802, 3555, 4761
soyabeans 809, 3736
storage 1838
sugarcane 1190, 4761
tobacco 1630, 2801
tomatoes 877
***Pythium acanthophoron*, soil** 802
Pythium aphanidermatum
beet 1679
Benincasia hispida 3323
Brassica 1256
lawns and turf 3546
roses 1075
soil 64, 1679
Pythium butleri
cowpeas 2735
Crotalaria juncea 4917
oospores 2344
spinach 2344
Pythium debaryanum
beet 2183
taxonomy 3534
tobacco 4763
tomatoes 1211
***Pythium deliense*, beet** 434
Pythium graminicola
lawns and turf 3546
rice 4296
***Pythium heterothallicum*, soil** 3555
Pythium intermedium
Pseudotsuga menziesii 3300
soil 3555
Pythium irregulare
apples 265
Coriandrum sativum 1599
Pseudotsuga menziesii 3431
soil 3057, 3555
taxonomy 3534
Trichoderma, antagonism 1389
wheat 4239, 4240
Pythium mamillatum*, *Ageratum houstonianum 6
***Pythium middletonii*, Actinomycetaceae, antagonism** 4848
Pythium monospermum
hyperparasitism, *Phytophthora megasperma* var. *sojae* 811
rice 4296
Pythium myriotylum
groundnuts 814
soil 802
soyabeans 809
Xanthosoma sagittifolium 3399
Pythium oligandrum
hyperparasitism, *Pythium ultimum* 437
soil 2883
Pythium paddicum*, *Lolium multiflorum 3085
Pythium paroecandrum
parsley 961
soil 802
***Pythium rostratum*, rice** 4296
***Pythium spinosum*, soil** 802
Pythium splendens
Schefflera actinophylla 3545
soil 4616
Pythium sylvaticum
apples 3555
soil 3555
yams 527
Pythium torulosum
India 2883
lawns and turf 3546
Pythium ultimum
apples 1564
assays, metalaxyl 1801
beans (*Phaseolus*) 1275, 1701, 2201
bedding plants 108
Cicer arietinum 2225
cotton 3056
cucumbers 3326
fungi, antagonism 2862
hyacinths 3057
laboratory tests, pesticides 4538
peas 2201, 3418
Pelargonium 4332
potatoes 4411
Pythium oligandrum, hyperparasitism 437
rice 4296
soil 2869, 3057
soyabeans 1709
tulips 3057
***Pythium vanterpoolii*, soil** 1000
***Pythium vexans*, laboratory tests, plant extracts** 4134
***Pythium zingiberum*, ginger** 2586, 2587
Queensland
Avicennia marina, *Phytophthora operculata* 1232
beans (*Phaseolus*), zinc, deficiencies 4057
Gladiolus, diseases 4325
grasses, viruses 248
groundnuts, *Aspergillus flavus* 4548
maize, *Ustilago maydis* 2441, 4276
pineapples, blackheart 2055
plant diseases 4103
soyabeans, *Phytophthora megasperma* f.sp. *glycinea* 2213
Stylosanthes guianensis, *Curvularia eragrostidis* 4933
sugarcane
diseases 2131
Puccinia melanocephala 3971
Pythium 1190
root rots 1190
striate mosaic 1191
sugarcane Fiji disease virus 3962
tea, *Cephaleuros virescens* 377
tobacco, *Phytophthora nicotianae* var. *nicotianae* 3982, 3983

Queensland *contd.*
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 1645
Quercus (see Oak)
Quinazolinones, activity, sunnhemp rosette virus 1849
Quinolate
control
clover, diseases 2532, 2533
Fusarium, wheat 1448
Quinolin 8-ol, control, *Phoma exigua* var. *foveata,* potatoes 2116
Quintozene
activity
Cicer arietinum 4552
Macrophomina phaseolina 4891
Rhizoctonia solani 2735
Trichoderma harzianum 581
control
cowpeas, damping off 2735
Crotalaria juncea, diseases 4917
Macrophomina phaseolina, sunflowers 3183
Rhizoctonia solani, beans (*Phaseolus*) 1276
Sclerotium rolfsii
groundnuts 495
turf 1541
wheat, root rots 989
fungicide tolerance, *Macrophomina phaseolina* 1354
laboratory tests, *Curvularia eragrostidis* 3917
phytotoxicity, onions 3388
residues
crops 2800
lettuce 1740
soil 2800
seed treatments
beans (*Phaseolus*) 1703
cotton 908, 1521, 4315
cowpeas 908
soyabeans 480, 2209
soil treatments 4056, 4185, 4920
Q5147, control, *Phoma exigua* var. *linicola,* flax 4913
Radish mosaic virus, radishes 1684
Radishes
Albugo candida, control 1254, 2281, 4040
Aphanomyces raphani, environmental factors 3312
Endogone, mycorrhizas, Argentina 4605
fluorine, minerals 4500
Fusarium, soil fungistasis 1824
Fusarium oxysporum f.sp. *raphani,* control 2687
mosaic
Japan 3310
sources 3310
transmission 3310
Peronospora parasitica, control 1254, 4040
Plasmodiophora brassicae
environmental factors 5016
varietal reactions 439
radish mosaic virus, host parasite relationships 1684
Rhizoctonia solani
control 2870
soil amendments 2870
seedborne fungi, control 1688, 4040
Streptomyces scabies
USA 2188
varietal reactions 2188
Radulomyces confluens, antagonism, *Heterobasidion annosum* 3780
Rain, *Pseudocercosporella herpotrichoides,* isolation 2977
Rajasthan
Cenchrus ciliaris, Claviceps fusiformis 4892
Grewia asiatica, Phoma sorghina 4705
Jasminum sambac, Phyllosticta 4621
Morianda tinctoria, Phyllosticta 4621
peas, *Erysiphe polygoni* 4802
Pennisetum americanum, Claviceps fusiformis 4892
Ramato
control
Alternaria ricini, Ricinus communis 2578
Phytophthora infestans, tomatoes 1213
Ramularia gossypii, cotton 678
Ramulispora sorghicola, sorghum 3736
Rape
activity, *Fusarium culmorum* 4256
cucumber mosaic virus, hosts 3888
diseases, Manitoba 1252
Leptosphaeria maculans
control 2186
infection 2684
UK 5010
virulence 5010
Peronospora parasitica
induced resistance 3814
infection 2682
Plasmodiophora brassicae
breeding 2192
pathology 1255
spores 4039
Sclerotinia, research 4097
Sclerotinia sclerotiorum
Alberta 4787
Canada 4788
control 4789
forecasting 4789
German Federal Republic 4789
seed 4787, 4788
seedborne fungi, detection 2189
Raphanus raphanistrum, *Oidium caricae,* hosts 3146
Raphanus sativus (see Radishes)
Raspberries
basidiomycetes, root nodules 2046
Botrytis cinerea
control 1119
genetics 2047
Switzerland 2539
cherry rasp leaf virus, UK 1114
Didymella applanata
control 278
genetics 2047
infection 1118
resistance 1117
varietal reactions 1117
diseases
Finland 1579
UK 1419
Erwinia amylovora, biological control 3135
Hapalosphaeria deformans, varietal reactions 1115
Leptosphaeria coniothyrium
control 1120
genetics 2047
infection 1118
mycoplasmas, ultrastructure 3810
Phragmidium rubi-idaei
control 1120
varietal reactions 1118, 3580
raspberry bushy dwarf virus
control 3579
UK 1114
raspberry mosaic virus, transmission 4722
raspberry ringspot virus, UK 1114
Rubus yellow net virus, indicator plants 1116
Thielaviopsis basicola, infection 1118
tomato ringspot virus, epidemiology 260
Verticillium dahliae, varietal reactions 1115
witches broom
mycoplasmas 277
Oregon 277
Raspberry bushy dwarf virus, raspberries 1114, 3578, 3579
Raspberry mosaic virus, raspberries 4722
Raspberry ringspot virus
protein 946
raspberries 1114
RE 26745, control, *Phytophthora infestans,* potatoes 734
Recilia dorsalis, transmission, rice gall dwarf virus 188
Records
geography
Alternaria brassicicola, Brazil 5017
Alternaria ricini, Egypt 2578
Aquathanatephorus pendulus
Louisiana 528
USA 528
bean pod mottle virus, Nebraska 3341
bean southern mosaic virus, Brazil 457
Botrytis tulipae, Iraq 1078
Records *contd.*
geography *contd.*
Cercospora helichrysi, India 1532
Cycloconium oleaginum, China 3154
Dahlia mosaic virus, Taiwan 1064
Dictyosporium heptasporum, Romania 3079
Drechslera stenospila, Papua New Guinea 740
Eutypa armeniacae, Turkey 4388
Fomitopsis pinicola, UK 2646
Fusarium oxysporum f.sp. *lycopersici,* Taiwan 2146
Fusarium solani f.sp. *batatas,* China 2753
Fusarium trichothecioides, Hungary 3211
Gibberella zeae, Washington 4877
Gloeocercospora sorghi, Taiwan 4281
Glomus clarus, Illinois 2827
groundnut stunt virus, Arkansas 1403
Hemileia vastatrix
Guatemala 209
Mexico 3528
Hormonema dematioides, India 2195
Hyalotia lateripes, Taiwan 4353
Kabatina juniperi, New Jersey 1676
Lachnellula willkommii, Maine 3667
Leptothyrium anemones, Portugal 2875
Leveillula taurica, Libya 3687
Microstroma juglandis, UK 2646
Monosporascus eutypoides, Israel 4047
Mycosphaerella fijiensis, Gabon 719
Oidium caricae, New Zealand 3146
Oidium oxalidis, Korea Republic 4581
Panicum mosaic virus St. Augustine grass decline str., Arkansas 2529
Pestalotia menezesiana, Canada 2510
Pestalotia truncata, Chile 3279
Peziza ostracoderma, South Africa 5051
Phoma costarricensis, India 4312
Phoma sorghina, Taiwan 4281
Phragmidium tuberculatum, Portugal 2875
Phytophthora citricola, Hawaii 285
Phytophthora fragariae, South Australia 4941
Phytophthora megasperma f.sp. *medicaginis,* Wyoming 3091
Phytophthora vignae, Taiwan 1302
Podosphaera tridactyla, Italy 4368
poinsettia mosaic virus, Canada 3539
Polymyxa betae, Nebraska 435
Polyschema olivacea, Taiwan 4353
potato virus Y necrotic str., Venezuela 4415
Pseudomonas corrugata, Denmark 6
Pseudomonas rubrilineans, Papua New Guinea 740
Pseudomonas syringae pv. *coronafaciens,* Minnesota 176
Pseudomonas syringae pv. *glycinea,* Italy 493
Pseudoperonospora humuli, Portugal 2874
Puccinia melanocephala, Hawaii 1628
Pyrenochaeta terrestris, Sudan 513
Pythium aphanidermatum, Singapore 1256
Pythium deliense
Arizona 434
USA 434
Pythium oligandrum, India 2883
Pythium torulosum, India 2883
Sclerotinia narcissicola, Iraq 1067
Seiridium unicorne, New Zealand 4474
soyabean dwarf virus, Nigeria 2208
squash mosaic virus
Africa 1690
Morocco 1690
Stagonospora sacchari
India 744
Papua New Guinea 740
sugarcane Fiji disease virus, Malaysia 5
Thielaviopsis basicola f.sp. *gossypii,* Bulgaria 3881
Trichoderma pseudokoningii, India 2886
Uromyces geranii, Portugal 2875

Records *contd.*
geography *contd.*
Uromyces transversalis, Brazil 1065
Ustilago coicis, Thailand 3515
Ustilago maydis
Queensland 4276
Singapore 2880
Ustilago scitaminea, Suriname 4984
Verticillium nigrescens, China 2361
wheat spindle streak mosaic virus, Nebraska 124
hosts
alfalfa mosaic virus, *Pachysandra terminalis* 1536
Alternaria panax, Polyscias fruticosa 3074
Alternaria tenuissima, groundnuts 1299
Arabis mosaic virus, olives 4727
Aristastoma camarographioides, soyabeans 2211
Ascochyta pisi, lentils 845
Aspergillus nidulans, onions 1743
bean yellow mosaic virus, saffron 4743
Botryodiplodia theobromae
Cycas circinalis 3065
squash 4797
broad bean wilt virus, *Ajuga reptans* 3060
brome mosaic virus
Helictotrichon pubescens 2528
Holcus mollis 2528
Leersia oryzoides 2528
Poa alpina 2528
cucumber mosaic virus, lucerne 4709
Curvularia eragrostidis, Stylosanthes guianensis 4933
Cylindrocladium clavatum, peas 455
Dictyosporium heptasporum, Sansevieria trifasciata 3079
Elsinoë, cassava 3398
Fusarium avenaceum, Pseudotsuga menziesii 3670
Fusarium dimerum, Cycas circinalis 3065
Fusarium equiseti, lucerne 3549
Fusarium fusarioides, lucerne 3549
Fusarium oxysporum, Benincasia hispida 3323
Fusarium oxysporum f.sp. *momordicae, Momordica charantia* 3322
Gaeumannomyces graminis var. *graminis,* soyabeans 484
Gibberella gordonia, Festuca arundinacea 243
Gibberella pulicaris, Pseudotsuga menziesii 3670
Glomerella cingulata, Nepenthes khasiana 4830
Glomus clarus
maize 2827
Polygonum hydropiperoides 2827
Gremmeniella abietina, Abies 5001
Hyalotia lateripes, Schoenoplectus triqueter 4353
Leptoxyphium bahiense, cotton 1992
Monosporascus eutypoides, melons 4047
Mycocentrospora acerina, Fagus 2646
Penicillium notatum, onions 1743
pepper veinal mottle virus, *Physalis angulata* 838
Pestalotia menezesiana, Cissus rhombifolia 2510
Pestalotiopsis palmarum, Schoenoplectus triqueter 4353
Phoma sorghina, Grewia asiatica 4705
Phoma violacea, apples 4715
Phyllachora paspalicola, Paspalum distichum 1547
Phyllachora punctum, Paspalidium punctatum 1547
Phytophthora cinnamomi, Sciadopitys verticillata 4488
Polyschema olivacea, Schoenoplectus triqueter 4353
Pseudomonas cichorii, Pelargonium 3543
Pythium aphanidermatum, Benincasia hispida 3323
Pythium deliense, beet 434
Sarocladium oryzae, Echinochloa colona 1958

Records *contd.*
hosts *contd.*
Seiridium cardinale, Cupressocyparis leylandii 4474
Seiridium unicorne, Cryptomeria japonica 4474
Sphaceloma
Jatropha aconitifolia var. *papaya* 3398
Manihot carthaginensis 3398
Stigmina thujina, Chamaecyparis lawsoniana 425
strawberry latent ringspot virus, olives 4727
tobacco ringspot virus, *Arctium lappa* 3806
tobacco streak virus, *Ajuga reptans* 3060
Tolyposporium ehrenburgii, Sorghum nervosum 2448
tomato leaf curl virus
Centratherum anthelminticum 3988
Solanum seaforthianum 3988
Verticillium dahliae, Peperomia obtusifolia 232
Verticillium fungicola, Pleurotus ostreatus 509
Verticillium lecanii, Uromyces appendiculatus 464
Red clover mottle virus, RNA 4212
Red clover necrotic mosaic virus, RNA 2354
Rehmannia glutinosa, Phytophthora nicotianae var. *parasitica,* Japan 3192
Reports (see also Conferences)
Argentina, Tucuman Agric. Exp. Sta. 2756, 4099
Australia
Dep. Agric. NSW 845
Queensland Dep. Primary Industries 4103
Queensland Sugar Exp. Stas. 2130
Belgium, Centre Rech. Agron., Gembloux 4101
Brazil, CEPEC 8
Canada, Forest Insect and Disease Survey 761, 4000
Colombia, CIAT 2521, 4054
Denmark
plant protection 6, 4098
State Seed Testing Sta. 847
France
IRAT 3735, 3736
Market Garden Crops Exp. Sta. 3737
German Democratic Republic, plant diseases 3738
India
AICCAIP 4407
AICSCIP 4393
CPCRI 4104, 4833
ICRISAT 2255
Jute Agric. Res. Inst. 216
Ireland
Fac. General Agric., Univ. Coll., Dublin 846
Pl. Sci. Div. Agric. Inst. Dublin 3404, 3478, 3613, 3677
Jamaica, Sugar Indust. Res. Inst. 3960
Japan, TARC 7
Kenya, Ministry of Agriculture 3734
Malaysia
MARDI 3, 4, 5
Rubber Res. Inst. 1189
Mauritius
Minist. Agric. 4102
Sugar Industry Res. Inst. 1192
Netherlands
Lab. Flower Bulb Res. 3057
Res. Sta. Flower Growing 4318
Res. Sta. Fruit Growing 2541
Wageningen Res. Inst. Plant Prot. 1771
New Zealand, DSIR 848
Nigeria, IITA 2758, 2992, 3008, 3342, 3376, 3397, 3399, 3400, 3401
Panama, Inst. Investigacion Agropecuaria 4100
Queensland, Sugar Exp. Stas. 2131
Reunion, IRAT 3405
Sarawak, Dep. Agric. 2757, 2948, 3009, 3045, 3171, 3394, 3396
Senegal, Plant protection 1793

Reports *contd.*
South Africa, Sugar Association Experiment Station 1193
Sri Lanka, Tea Research Institute 1200
Taiwan
Sugar Res. Inst. 2625
Tobacco Res. Inst. 1630
UK
Aberdeen Sch. Agric. 4093, 4096
Agricultural Research Council 1326
Commonw. For. Inst. Oxford 2254
Dep. Agric. N. Ireland 843, 1769, 1857, 1858, 2081
E. Malling Res. Sta. 3403, 3467, 3551, 3552, 3555, 3557, 3560, 3562, 3566, 3570, 3576, 3578, 3579, 3604, 3605, 3607, 3728
Edinburgh School Agric. 1327, 1419, 1423, 1612, 1682
Forest Research 2646
Glasshouse Crops Res. Inst. 1770, 1814, 1865, 1866, 1995, 1996, 1997, 1999, 2006, 2007, 2179, 2180, 2196, 2197, 2236
Grassland Research Institute 1079
John Innes Inst. 4095, 4118, 4124, 4126, 4203, 4216, 4323, 4509
Long Ashton 844, 872, 879, 973, 974, 984, 1229, 4582, 4595, 4596, 4644, 4652, 4654, 4713, 4756
National Institute Agricultural Botany, Cambridge 1, 4097
Natn. Vegetable Res. Sta., Warwick 4832, 4856, 4857, 5008, 5010, 5011, 5012, 5013, 5014, 5018, 5019, 5020, 5027, 5048, 5049, 5050, 5052, 5053, 5054, 5055, 5056, 5059
Plant Breeding Inst., Cambridge 4094, 4231, 4232, 4233, 4234, 4248, 4250, 4251, 4262, 4265
Rothamsted Exp. Sta. 4583, 4588, 4634, 4650, 4651, 4737, 4747, 4794, 4808
Scottish Crop Research Inst. 842
W. Scotland Agric. Coll. 2, 151, 152, 238, 360, 439, 506
Welsh Plant Breeding Sta. 841
Wye Coll. Hop Res. 3927
USA, Boyce Thompson Inst. Pl. Res. 4105
Zimbabwe, Tobacco Res. Bd. 3220
Reunion
citrus, viruses 3039
crops, diseases 3735, 3736
fruit, diseases 3094
mangoes, diseases 722
Reviews
acid rain 4108
Agrobacterium tumefaciens 13
antibiotics 2265
industries, USA 3762
apples, scald 3118
avocados, *Phytophthora cinnamomi* 4378
bacteria
cytology 2766
genetics 2766
morphogenesis 2766
seed testing 15
bacterial diseases, resistance 3415
bacteriocins 4836
barley, barley yellow dwarf virus 1457, 3835
beet
viruses 2676
breeding 4031
biological control 111, 2265
Bipolaris, taxonomy 4627
cassava, diseases, resistance 1764
citrus, blight, Florida 2492
cocoa, *Crinipellis perniciosa* 1422
coffee, *Hemileia* 674
Coniferae, stress factors 1234
Corynebacterium, plant pathogens 2269
cotton
diseases 1984
Xanthomonas campestris pv. *malvacearum* 1994
crop loss, viruses 92
crops, viroids 4752
date palms, *Fusarium oxysporum* f.sp. *albedinis* 1157
Drechslera, taxonomy 4627
elms, *Ceratocystis ulmi* 1222, 3661

Reviews *contd.*
Embellisia 4628
Exserohilum, taxonomy 4627
faba beans, viruses 4533
frost injury, plants, bacteria 2780
fungi
cytology 2766
genetics 2766
Mexico 3764
morphogenesis 2766
taxonomy 2766
viruses 1408
fungicide tolerance 1797
models 26
grapevine fanleaf virus 3156
groundnuts, diseases, control 3352
host parasite relationships, genetics 13
hypovirulence 13
leaves, microorganisms 2261
legislation, quarantine 883
maize, diseases 1010
maize chlorotic mottle virus, maize 1911
mangoes
diseases 2052
malformation 286
mushrooms, viruses 1408
mycorrhizas 2265, 2812
Agaricales 2820
agriculture 2826
Ericales 2838
forest trees 2821
Gasteromycetes 2820
host parasite relationships 2830
interactions 555
nitrogen fixation 4147
plant protection 3434
soil fumigants 557
soil reclamation 46
mycotoxins 13
palms, flagellates 2072
pathogenesis, abnormalities 4587
peaches
Monilinia fructicola 1573
Taphrina deformans 4366
pesticides 29
developing countries 4128
Japan 1348
pineapples, blackheart 2055
plant diseases
integrated control 3742
resistance 3470
varietal reactions 3471
plant pathogens
ultrastructure 3450
USA 4111
plant pathology 2776, 3410
plant protection
biological control, intercropping 3743
Taiwan 1925
plant viruses
diagnosis 3457
resistance 3741
plants, fungi, succession 2346
Podosphaera leucotricha, control 3112
potatoes
Streptomyces scabies, control 369
viroids 4752
Puccinia recondita, wheat 135
rice
Pyricularia oryzae, control 3016
Sarocladium oryzae 3859
Rosaceae, *Peronospora,* Europe 3446
Sclerotinia sclerotiorum, beans (*Phaseolus*) 3694
seeds
deterioration, resistance 2771
infection 2769
pathogenesis 2769
soilborne pathogens 4849
soils, mycorrhizas 556
soyabeans
Diaporthe phaseolorum var. *sojae* 1287
diseases, resistance 4060
Spiroplasma 3807
spruce, *Heterobasidion annosum,* resistance 3301
sugarcane, diseases 2129, 4983
sweet potatoes, diseases, resistance 1764
Thanatephorus cucumeris, rice 4906
tobacco, diseases, control 4425
trees
decay 4994

Reviews *contd.*
trees *contd.*
diseases 1222
wood destroying fungi 2648
trickle irrigation, plant disease control 4112
tropical crops, seed testing 3790
Ustilaginales, Hungary 4193
Ustilago scitaminea, sugarcane 3641
viroids, host parasite relationships 2349
viruses
control 2352
ecology 2352
enzymes 13
resistance 597
RNA 13
evolution 2348
tissue culture 2903
transmission, nematodes 91
wheat
diseases 615
breeding 119
Septoria, Romania 3488
Tilletia 625
Tilletia controversa 626
Xanthomonas campestris pv. *citri,* citrus 3526
RH 2161
control, *Cochliobolus, Zizania aquatica* 652
seed treatments, *Cedrus* 2669
RH 5781F, control, *Venturia pirina,* pears 3566
Rhabdocline pseudotsugae, *Pseudotsuga menziesii* 776
Rhabdocline pseudotsugae* ssp. *pseudotsugae, *Pseudotsuga menziesii* 4486
Rhabdocline weirii* ssp. *oblonga, *Pseudotsuga menziesii* 4486
Rhabdoviridae, papayas 2053
Rhamnus cathartica, *Puccinia coronata,* virulence 2987
Rhamnus dahurica, *Microsphaera,* taxonomy 2339
Rheum (see Rhubarb)
Rhizina undulata, pines 2174
Rhizobium
bean common mosaic virus, *Vigna radiata* 4075
interactions, groundnut mottle virus, groundnuts 4549
Rhizobium japonicum
interactions, *Phytophthora megasperma* f.sp. *glycinea,* soyabeans 4544
soyabeans 3704
Rhizobium trifolii, interactions, mycorrhizas 890
Rhizoctonia
beet 4495
Brassica 5014
cereals 4096
Crotalaria juncea 4917
Eucalyptus 4463
groundnuts 1721
Japan 3787
Lespedeza cuneata 3902, 3903
melons 1268
North America 3787
potatoes 3612
relationships 3787
Rumohra adiantiformis 687
strawberries 3138
taxonomy 3787
wheat 4238
Rhizoctonia cerealis
cereals 974, 986, 4234
wheat 145, 1897, 3497, 3498, 4234, 4650, 4654
Rhizoctonia fragariae
fungi, antagonism 2862
strawberries 1582
Rhizoctonia goodyerae-repentis, *Goodyera repens,* mycorrhizas 2836
Rhizoctonia solani
Actinidia chinensis 1527
activity, *Melaleuca leucadendron* 4130
Araucaria 778
Araucaria heterophylla 779
barley 165
beans (*Phaseolus*) 463, 465, 1269, 1276, 1703, 1793, 2201, 4056
bedding plants 3059
beet 1680, 2677, 2678, 3306, 4785

Rhizoctonia solani *contd.*
Brassica napus 2302
carnations 1061, 3062
Cicer arietinum 504, 1739, 3713, 4078
Citrus 3253
clover 2532, 4922
coffee 3054, 4313
control 2286
cotton 212, 677, 908, 1051, 1520, 1986, 1991, 4315
cowpeas 908, 2735
crops 1864
Crotalaria juncea 4917
Cymbopogon flexuosus 1553
Dactylis glomerata 4922
Echinochloa colona 1961
enzymes 2319, 4687
faba beans 2715, 2716, 2717
forest trees 3253
fungi, antagonism 2862
fungicide tolerance 873
genetics 2334, 2335
groundnuts 2729, 3708
hosts 107
Iris 1059, 4920
laboratory tests
fungicides 4846
plant extracts 1798, 2290, 4134
lawns and turf 4337
lime (citrus) 4908
Lolium multiflorum 4922
lucerne 3549
maize 3510
oak 3253
papayas 1586
peas 1269, 2201
Phyllanthus emblica 3253
pines 1240
potatoes 365, 872, 1161, 1177, 1617, 1793, 2080, 2081, 2109, 3631, 3953, 4411, 4756, 4977
radishes 2870
rice 201, 1036, 1508, 1936, 1954, 1955, 1956, 1961, 3030, 3860, 4295, 4687
roses 1075
sesame 1144
soil 64, 1508, 2677, 2867, 2870, 3054, 3708, 3953, 4616, 4619
soyabeans 1291, 2209, 2724
tobacco 1640, 3220
Trichoderma, antagonism 1389
Trichoderma hamatum, hyperparasitism 1829
Trichoderma harzianum, hyperparasitism 1829
tulips 1059
Vigna radiata 1304
wheat 4239, 4240
Xanthosoma sagittifolium 3399
Rhizoctonia zeae, lawns and turf 4337
Rhizopogon roseolus, pines, mycorrhizas 2815
Rhizopus
grapevines 308
groundnuts 1721
peaches 3126
Pleurotus sajor-caju 4082
soil 4424
Rhizopus arrhizus
Nicotiana glauca 3650
plums 4718
tobacco 4425
Rhizopus nodosus, eggplants 4575
Rhizopus oryzae, onions 4561
Rhizopus stolonifer
avocados 3586
melons 2701
plums 4718
rhizosphere, pines 44
sunflowers 3184
tomatoes 2144, 2642, 4443, 4992
Rhode Island, *Rhododendron,* mycorrhizas 898
Rhododendron
Capnocheirides rhododendri, nomenclature 685
Monochaetia monochaeta, China 3076
mycorrhizas
Rhode Island 898
ultrastructure 899
Phyllosticta aurea, China 3076
Phytophthora cinnamomi
control 3077

Rhododendron *contd.*
Phytophthora cinnamomi contd.
environmental factors 1072, 3077
Rhodosporidium toruloides, classification 1395
Rhopalosiphoninus latysiphon
transmission
potato virus A 1166
potato virus Y 1166
Rhopalosiphum maidis, transmission, soyabean mosaic virus 1285
Rhopalosiphum padi
transmission
barley yellow dwarf virus 1424, 1426, 1427, 1432, 1497, 1498
soyabean mosaic virus 1285
viruses 4634
Rhubarb
Arabis mosaic virus, Czechoslovakia 432
viruses, UK 517
Rhynchosporium
cereals 3478
Lolium 1079, 4342
Rhynchosporium secalis, barley 641, 960, 984, 1001, 1857, 1899, 2957, 3504, 4268, 4269, 4270, 4650, 4654
Rhytismataceae
Australia 4195
New Zealand 4195
taxonomy 4195
Ribavirin, control, grapevine leaf roll virus, grapevines 3158
Ribes, Cronartium ribicola, cultures 1241
Ribes nigrum (see Black currants)
Ribgrass mosaic virus, Chinese cabbages 4037
Rice
Alternaria padwickii, seed testing 1507
bacteria
China 3862
symptoms 3862
barley yellow dwarf virus
Italy 1498
transmission 1497, 1498
varietal reactions 1497
Cercospora oryzae
hosts 2479
Nigeria 2479
varietal reactions 2479
Cochliobolus miyabeanus
control 199, 1506, 1948
epidemiology 1505
fungicidal plants 1946
genetics 198
India 1505
infection 661
phytoalexins 199
seed pathology 3857
soil conditions 1947
sporulation 661
variations 1949
varietal reactions 195, 197, 1027
Corticium sasakii, control 2475, 3858
Corticium solani
control 3009
Sarawak 3009
Curvularia fallus
environmental factors 1038
symptoms 1038
discoloration
biochemistry 4897
control 1501
environmental factors 4898
diseases
breeding 3006
control 1925
Japan 7
reviews 1925
Erwinia chrysanthemi pv. *chrysanthemi,* Bangladesh 1966
fungi
environmental factors 2461, 3011
fertilizers 3012
Hokkaido 2461
kernels 3010, 3011, 3012, 3031
spore dispersal 3010
fungicides, metabolism 3005
Fusarium
control 3032
Punjab 4904
symptoms 4904
Fusarium oxysporum, Brazil 3029

Rice *contd.*
Gaeumannomyces graminis
infection 2460
Korea Republic 2460
Gerlachia oryzae, infection 200
grassy stunt
Kerala 1930
varietal reactions 1930
hoja blanca, mycoplasmas 1026
iron, toxicity 2489
Magnaporthe salvinii
control 662, 1950
inoculation 3028
oilseed cakes 1936
plant residues 1951
testing 3028
varietal reactions 3028
Monographella albescens
control 2478
fertilizers 1959
India 1037, 1957, 2478
physiology 4294
spread 1037
toxins 4297
varietal reactions 1037, 1957, 4905
Pseudomonas glumae, inoculation 2488
Pyrenochaeta
Bangladesh 3524
varietal reactions 3524

Pyricularia oryzae 3026
aggression 659
Brazil 1034, 1035, 1937
breeding 4686
China 1504
control 1030, 1034, 1035, 1503, 1945, 2469, 2470, 3014, 3015, 3016, 3017, 3023, 3027, 4903
development 1937
electron microscopy 1503
environmental factors 2474
enzyme activity 657, 3855
epidemiology 655
forecasting 1031, 2463, 2464, 3025
fungicide residues 2471
fungicide tolerance 656, 2468, 3022
genetics 1028, 1939, 2474, 3027, 4290, 4293
histochemistry 660
histology 658
host parasite relationships 1943, 3013
India 1029, 1033, 1942, 4289
infection 1939
inoculation 1940
Iran 3025
Japan 2462, 2463, 2465, 2466, 2469, 3018, 4290
Korea Republic 1030, 3023
Manipur 1941
mating 1944, 2473
Nepal 1502, 1928
pathogenicity 4292
phytoalexins 1032
races 1504, 1938, 2465, 2467, 3018, 4289
resistance 660, 4293
Sarawak 3009
seed testing 3024
spore dispersal 3019, 3020
sporulation 4901
Taiwan 4291, 4686
Tanzania 3522
testing 1942
tricyclazole 4902
USA 4293
varietal reactions 195, 1027, 1029, 1033, 1502, 1504, 1928, 1941, 2462, 2472, 2474, 3009, 3021, 3522, 3855, 3856, 4290, 4291
virulence 1938, 2466
yield losses 2462, 3023, 3522
Pythium
damping off 4296
Korea Republic 4296
symptoms 2476
Rhizoctonia solani
Arkansas 3860
burning 3860
control 3860
disease models 1955
enzymes 201, 4687

Rice *contd.*
Rhizoctonia solani contd.
histology 1954
hosts 1961
oilseed cakes 1936
proteins 201
rhizosphere, microflora 1036
survival 1508
Taiwan 4295
testing 1956
varietal reactions 3030
yield losses 3030
rice bunchy stunt virus
characteristics 189
China 2459
epidemiology 2459
survival 2459
rice dwarf virus
China 4895
inoculation 1929
Nepal 1928
symptoms 4895
transmission 4895
varietal reactions 1928, 1929
rice gall dwarf virus
characterization 1022
hosts 1935
Malaysia 191
purification 1022
Thailand 188
tissue culture 653
transmission 188
rice grassy stunt virus
nucleoproteins 3517
particles 3517
serology 2458
rice ragged stunt virus
China 3516, 4685
diagnosis 192
purification 3853
transmission 1023, 1025, 4685
varietal reactions 3516
rice stripe virus
relationships 4287
serology 4287
rice transitory yellowing virus, Taiwan 1926
rice tungro virus
control 1932, 1933, 1934, 4684
environmental factors 1931
epidemiology 4683
host parasite relationships 4683
India 190, 1499
insecticides 4684
Japan 4896
Malaysia 4288
manures 4894
Philippines 4894
testing 4288
transmission 1024, 1931, 4288, 4683, 4684, 4896
varietal reactions 190, 1499
rice waika virus
Japan 4896
transmission 4896
rice yellow mottle virus
Africa 3008
detection 3008
genetics 3520
Nigeria 3007
resistance 3520
varietal reactions 3007
rice yellow stunt virus
China 1500
transmission 1500
Saprocladium oryzae
Bangladesh 1958
fertilizers 3523
hosts 1958
phytoalexins 3033
Punjab 4904
reviews 3859
varietal reactions 202, 3033
seed pathology 3857
seed treatments 193
seedborne fungi, control 3818
Sekiguchi
genetics 3854
induction 3854
symptoms 3854
senescence 1021
soil fungi
India 194

Rice *contd.*
soil fungi *contd.*
Korea Republic 4899
USSR 3521
Thanatephorus cucumeris
biological control 1960
control 4688, 4906
epidemiology 4906
infection 1495
reviews 4906
Tilletia barclayana
India 1952
varietal reactions 1952
Trichoderma, control 3032
Ustilaginoidea virens, Japan 2477
viruses
Japan 3853
Philippines 3518, 3519
relationships 3518
symptoms 3519
Taiwan 1926
transmission 3518, 3519
Xanthomonas campestris pv. *oryzae*
bacteriophages 2482, 2485
breeding 4299
China 2481, 2482
crop loss 1041
ecology 1040
environmental factors 2483
enzyme activity 1512
epidemiology 3525
fertilizers 2484, 3861
forecasting 2481
genetics 1039, 2487, 4299
growth 2485
India 663, 1040, 1041, 1509, 1510
infection 1511
Japan 4689
Java 4298
Korea Republic 3861
pathotypes 663, 3034, 4298
phenols 1962, 4907
plasmids 2486
pruning 1965
resistance 1962, 2487
specialization 4689
survival 3037
Taiwan 3034
transmission 3037, 4690
varietal reactions 1509, 1510, 1963, 2480, 3035, 3036, 3861, 4907
yield losses 3861
yellow dwarf, Taiwan 1926
Rice bunchy stunt virus, rice 189, 2459
Rice dwarf virus
rice 1928, 1929, 4895
ultrastructure 654
Rice gall dwarf virus
hosts 1935
rice 188, 191, 653, 1022, 1935
Rice grassy stunt virus, rice 1926, 2458, 3517, 3518, 3519
Rice ragged stunt virus
barley 3853
CMI/AAB descriptions 89
maize 3853
rice 192, 1023, 1025, 1926, 3516, 3853, 4895
Rice stripe virus
rice 1926, 4287
RNA 1927
Rice transitory yellowing virus, rice 1926
Rice tungro virus
purification 4682
rice 190, 1024, 1499, 1931, 1932, 1933, 1934, 3519, 4288, 4683, 4684, 4894, 4896
serology 4682
Rice waika virus, rice 4896
Rice yellow mosaic virus, rice 3736
Rice yellow mottle virus, rice 3007, 3008, 3520
Rice yellow stunt virus, rice 1500
Richea continentis, *Meloderma richeae,* Australia 4195
Ricinus communis
Alternaria ricini
control 2578
Egypt 2578
Fusarium oxysporum f.sp. *ricini*
anatomy 1604
enyzmes 1603
phenols 1602
Rickettsias
apples 262
barley 3834
Ridomil
activity, Peronosporales 2801
control
Bremia lactucae, lettuce 4557
Peronospora arborescens, Papaver somniferum 3932
Peronospora destructor, onions 3723
Peronospora parasitica, Chinese cabbages 3314
Peronospora tabacina, tobacco 1636, 2139
Phytophthora cactorum, strawberries 3915
Phytophthora infestans, potatoes 362
Phytophthora nicotianae var. *nicotianae,* tobacco 750
Phytophthora nicotianae var. *parasitica, Piper betle* 4962
Phytophthora palmivora
aranda 4701
cocoa 1869
Plasmopara halstedii, sunflowers 4399
Plasmopara viticola, grapevines 296
radishes, diseases 1254
Sclerospora graminicola, Pennisetum americanum 1923
Trachysphaera fructigena, bananas 720
fungicide tolerance, *Pseudoperonospora cubensis* 2699
seed treatments, *Cicer arietinum* 2225
soil treatments 809, 2512
Ridomil combi, control, *Phytophthora cactorum,* strawberries 3915
Ridomil MBC, control, *Pezicula malicorticis,* apples 3551
Ridomil MZ
control
Phytophthora palmivora
aranda 4701
Piper nigrum 3171
Ridomil MZ 58, control, *Peronospora tabacina,* tobacco 1636
Ridomil plus, activity, Peronosporales 2801
Ridomil W25, control, *Peronospora tabacina,* tobacco 3648
Rifamycin, activity, *Xanthomonas campestris* pv. *malvacearum* 3882
Rigidoporus lignosus, rubber 737, 1625, 2126, 2937
River water
plant viruses
geographical distribution 4856
transmission 4856
UK 4856
Rizolex
activity 2286
control, *Rhizoctonia solani,* potatoes 4756
Rodents
control, Uredinales, pines 4479
epidemiology, *Alternaria,* soil 4222
Roettboellia exaltata, viruses, symptoms 2992
Romania
apricots
dieback 1111
diseases 1112
grapevines, *Sclerotinia fuckeliana* 3602
Hibiscus esculentus
Alternaria hibiscinum 2751
Fusarium oxysporum f.sp. *vasinfectum* 2751
oak, *Ceratocystis fagacearum* 3267
Peronosporales 2330
Pleospora 2888
Sansevieria trifasciata
Dictyosporium heptasporum 3079
Drechslera iridis 3079
wheat, *Septoria* 3488
Ronilan
control
Botrytis cinerea
grapevines 2573, 3161
lupins 1090
tomatoes 1646
Pleiochaeta setosa, lupins 1090
Sclerotinia fuckeliana, grapevines 3602
Sclerotinia sclerotiorum, Actinidia chinensis 2561
Root rots, soil conditions 579
Rosa multiflora, witches broom, biological control 3544
Rosaceae
Peronospora
Europe 3446
reviews 3446
Rosellinia desmazieresii, Salix repens 2254
Rosellinia necatrix, mycotoxins 1818
Roses
Amerosporium circinata, India 1538
Botrytis cinerea, control 1076
Cytospora rosarum, Italy 1537
Diplocarpon rosae
control 3078
environmental factors 235
Oklahoma 3078
storage 2016
diseases, control 686
Leptosphaeria coniothyrium, control 1074
Peronospora sparsa
control 1073, 3889
Hungary 3889
symptoms 1073
Phomopsis gulabia
India 1539
symptoms 1539
Phomopsis incarcerata
Italy 1537
symptoms 1537
Phragmidium mucronatum
control 2519
hosts 2517
infection 2518
rootstocks 2518
UK 2518
Phragmidium tuberculatum, Portugal 2875
Pythium aphanidermatum
Canada 1075
symptoms 1075
Rhizoctonia solani
Canada 1075
symptoms 1075
Sphaerotheca pannosa
control 234
environmental factors 219
viruses
seed 1997
UK 1997
witches broom, USA 3544
Rotylenchulus reniformis, epidemiology, *Verticillium dahliae,* cotton 4696
Rovral
control
Alternaria longipes, tobacco 1639
Botrytis cinerea, strawberries 3137
melons, postharvest decay 790
onions, storage decay 2748
Sclerotinia sclerotiorum, Actinidia chinensis 2561
laboratory tests, *Cladosporium allii-cepae* 1317
Roystonea regia, *Ascochyta roystoneae,* India 2590
RP 26019, control, *Cochliobolus, Zizania aquatica* 652
Rubber
Botryodiplodia, control 739
Botryodiplodia theobromae, Tripura 2127
Corticium salmonicolor, control 2937
diseases
Brazil 8
control 2128, 3957
Malaysia 1189, 2128
Fusarium solani
Sri Lanka 4423
symptoms 4423
Glomerella cingulata, control 738
microorganisms, leaves 371
Phellinus noxius, enzymes 1625
Rigidoporus lignosus
control 2126, 2937
enzymes 1625
histochemistry 737
host parasite relationships 737
soil fungi, Sierra Leone 372
Rubigan
control
Monilinia, cherries 1578
Uncinula necator, grapevines 1592

Rubigan 12 EC, control, *Erysiphe umbelliferarum,* parsley 1601
Rubus
Hapalosphaeria deformans, varietal reactions 1115
Rubus yellow net virus, indicator plants 1116
Verticillium dahliae, varietal reactions 1115
viruses, UK 1114
Rubus fruticosus (see Blackberries)
Rubus idaeus (see Raspberries)
***Rubus* yellow net virus,** *Rubus* 1116
Rumohra adiantiformis
Cylindrocladium heptaseptatum, control 2017
postharvest decay
control 687
environmental factors 687
Russula
pines, mycorrhizas 4142
poplars, mycorrhizas 4142
Rusts (see Uredinales)
Rutabagas (see Swedes)
Rye
Claviceps purpurea
enzymes 645
ergot 1477
photosynthates 1477
Coprinus psychromorbidus, Yukon 4670
Erysiphe graminis, control 1008
Fusarium nivale, testing 2436
Puccinia graminis
Canada 983
races 983
snow mould, Japan 2382
soil fungi, benomyl 3843
Urocystis occulta
Alberta 2435
control 2435
yield losses 2435
Xanthomonas campestris pv. *cerealis*
Japan 646
symptoms 646
Ryegrass cryptic virus, *Lolium multiflorum* 1081
Ryegrass mosaic virus
Lolium 238, 1079, 1544, 1545
Lolium multiflorum 1546, 3084
Lolium perenne 1546, 2525, 3084, 4923
Ryegrass seedborne virus
Lolium multiflorum 3084
Lolium perenne 3084
Ryegrass spherical virus
Lolium multiflorum 1542, 1543
Lolium perenne 1543
Saccharides, *Phytophthora citrophthora* 4694
Saccharomyces cerevisiae, fungicides, activity 3421
Saccharomycopsis vini, grapevines 301
Saccharum officinarum (see Sugarcane)
Safflower
Alternaria carthami
control 4739
Spain 339
symptoms 339
Alternaria helianthi, hosts 3935
Aspergillus ochraceus, plant oils 1144
diseases
Australia 4963
breeding 4963
Italy 3172
Fusarium oxysporum, host parasite relationships 1146
Macrophomina phaseolina
host parasite relationships 1605
varietal reactions 1605
turnip mosaic virus, California 2067
Saffron
bean yellow mosaic virus, Italy 4743
viruses
Italy 1529
particles 1529
Safranin, laboratory tests, bacteria, tea 4762
Salicylic acid, tobacco mosaic virus, tobacco 3223
Salix
Erwinia salicis
detection 3276
serology 3276
Melampsora, Japan 3275
Salix alba, *Erwinia salicis,* spread 1230
Salix koriyanagi, *Melampsora dimorphospora,* Japan 3275
Salix miyabeana, *Caeoma salicis-miyabeana,* Japan 3275
Salix repens, *Rosellinia desmazieresii,* reports 2254
Salix rotundifolia, mycorrhizas, Alaska 1811
Salix triandra, *Melampsora amygdalinae,* control 1229
Salt spray, damage 964
Sandal
spike
India 1231
transmission 1231
Sansevieria trifasciata
Dictyosporium heptasporum, Romania 3079
Drechslera iridis, Romania 3079
Santar, control, microorganisms, wounds 4013
Saponaria officinalis, *Ustilago violacea,* taxonomy 913
Saprol
activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
control
mushrooms, diseases 2236, 2237
Uncinula necator, grapevines 1592
Sarawak
crops, diseases 2757
oranges, *Phytophthora nicotianae* var. *parasitica* 3045
Piper nigrum, black berry 1145
rice
Corticium solani 3009
Pyricularia oryzae 3009
Sarcodes sanguinea, mycorrhizas, electron microscopy 897
Sarcoxylon compunctum, physiology 567, 4172
Sarocladium oryzae
Echinochloa colona 1958
rice 202, 1958, 3033, 3523, 3859, 4904
Saskatchewan
barley, *Cochliobolus sativus* 4869
soil
Cochliobolus sativus 921
Curvularia spicata 921
wheat, *Cochliobolus sativus* 921, 4869
Satsuma dwarf virus, satsumas 668
Satsumas
citrus mosaic virus, detection 668
citrus tristeza virus, Italy 3864
Diaporthe citri, infection 2491
satsuma dwarf virus, detection 668
Saudi Arabia
date palms
Alternaria alternata 2078
Xylohypha nigrescens 2078
soil fungi 909, 910, 4851
Sawdust, activity, *Fusarium udum* 2323
Scaevola frutescens, cucumber mosaic virus, Florida 2018
Scanning electron microscopy
Armillaria 396
Armillaria luteobubalina 396
Botrytis cinerea 1835
Cladosporium caryigenum, pecans 3665
Erysiphaceae 4861
Erysiphe graminis, barley 2985
fungi, techniques 4854
Fusarium oxysporum f.sp. *lycopersici,* tomatoes 2148
Gaeumannomyces graminis, wheat 1896
Glomus macrocarpum 55
Inonotus dryophilus, oak 2655
Peronospora tabacina, tobacco 4988
pines, air pollution 4026
Pseudomonas syringae pv. *tomato,* tomatoes 2158
Puccinia coronata, oats 2988
Pyricularia oryzae, rice 1503
soyabeans, seed coats 486
Trichoderma
Rhizoctonia solani 1829
Sclerotium rolfsii 1829
Uredinales, aeciospores 587
Ustilago esculenta, Zizania latifolia 2249
Scaphytopius nitridus, transmission, *Spiroplasma citri* 102
Schefflera actinophylla
Pythium splendens
aetiology 3545
control 3545
Hawaii 3545
Schefflera arboricola
Alternaria, Florida 2019
Alternaria panax
benomyl 4918
Florida 3074
Schizanthus wisetonensis
mycoplasmas
hosts 4706
India 4706
transmission 4706
Schizaphis graminum, transmission, maize dwarf mosaic virus 4860
Schizophyllum commune, classification 1395
Schizotrichella cissampelosa, *Cissampelos pareira* 342
Schleichera trijuga, fungicidal properties 1936
Schoenoplectus triqueter, diseases, Taiwan 4353
Sciadopitys verticillata
Phytophthora cinnamomi
aetiology 4488
Virginia 4488
Scirrhia acicola, pines 2174
Scirrhia pini, pines 417, 4483, 4484
Scleria polycarpa, *Stenella scleriae,* Solomon Islands 2326
Sclerocystis, keys 553
Sclerospora graminicola
Euchlaena mexicana 1020
Pennisetum americanum 1019, 2450, 2451, 3002, 3003, 4285
Pennisetum typhoides 1496, 1828, 1921, 1923
Setaria verticillata 1020
soil 1828
Sclerotinia
conferences 2257
rape 1, 4097
soyabeans 5066
Sporidesmium sclerotivorum, hyperparasitism 2855
Xanthium pensylvanicum 5066
Sclerotinia borealis
Festuca pratensis 2524
Lolium perenne 2524, 4336
Phleum pratense 4336
wheat 615
Sclerotinia fuckeliana
characteristics 2572
fungicide tolerance 1794
grapevines 2572, 3602
Sclerotinia homoeocarpa
Agrostis 3892
Agrostis palustris 4338
Sclerotinia minor
Endophragmiella constricta, hyperparasitism 924
groundnuts 3373, 4066, 4550
identification 2893
lettuce 2231, 4081
sclerotia, proteins 2847
soil 4550
Trichoderma, antagonism 4618
Xanthium pensylvanicum 5066
Sclerotinia narcissicola, *Narcissus* 1067
Sclerotinia sclerotiorum
Actinidia chinensis 2561
apothecia 1377
beans (*Phaseolus*) 1269, 3694
Coniothyrium minitans, hyperparasitism 3610
fungicide tolerance 873
identification 2893
laboratory tests, plant extracts 2290
lettuce 69, 508, 1310
Papaver somniferum 2577
physiology 1381
rape 4787, 4788, 4789
safflower 3172
sclerotia, proteins 2846, 2847
soil 69
soyabeans 488, 5034
spores, trapping 931
sunflowers 1608, 1609, 2069, 2582, 2583, 2584, 3610, 4400, 4402, 4404, 4964
Xanthium pensylvanicum 5066

***Sclerotinia squamosa*,** onions 2240, 4565, 5053
Sclerotinia trifoliorum
apothecia 4347
ascospores 3894, 3895
clover 692, 960, 1857, 3896, 4347
enzyme activity 61
genetics 3895
identification 2893
sclerotia, proteins 2847
Xanthium pensylvanicum 5066
Sclerotiniaceae
Azores 914
Canary Islands 914
Madeira 914
Sclerotium cepivorum
Allium 2747
onions 512, 826, 1318, 2241, 3385, 3724, 3725, 3726, 4563, 5056
***Sclerotium hydrophyllum*,** coumarins 4600
Sclerotium rolfsii
apples 3105
beans (*Phaseolus*) 3418
beet 3186
carboxamides, activity 2861
Cicer arietinum 504, 1739, 3719, 4078
control 2286
coumarins 4600
Crotalaria juncea 4917
faba beans 2715, 2716, 2717
Grewia asiatica 289
groundnuts 495, 496, 3283, 3370
herbicides, laboratory tests 33
inhibition, *Nocardia salmonicolor* 38
interactions 905
Iris 4920
laboratory tests 4926
fungicides 875, 3420, 4084
plant extracts 2290
lawns and turf 1541
Leucaena leucocephala 774
morphology 2314
pears 1559, 1560
physiology 1822, 2314
Piper betle 3933
potatoes 2113, 3945
sclerotia 1822
soil 64, 4619
soyabeans 1716, 3186
sunflowers 3186
tomatoes 3736
Trichoderma hamatum, hyperparasitism 1829
Trichoderma harzianum, hyperparasitism 1829
***Scolytus*,** transmission, *Ceratocystis ulmi* 404
***Scopolia*,** viruses, susceptibility 599
Scotland
peony, tobacco rattle virus 945
potatoes
Phoma exigua var. *foveata* 2104
Phytophthora infestans 1174
Polyscytalum pustulans 2104
Secale cereale (see Rye)
***Securigera securidaca*, *Erysiphe trifolii*,** biological control 2252
Seed pathology
bibliographies, Brazil 4221
Europe 4218
Italy 4218
Seed testing
bacteria, reviews 15
Coriandrum sativum 1596
cowpeas 3710
Cuminum cyminum 1596
Denmark 847
Foeniculum vulgare 1596
peas 454
pines 420
techniques 2900
Trachyspermum ammi 1596
tropical crops 3790
Seed treatments
barley 150, 151, 152, 163, 164, 1001, 1423, 1899, 1904, 1905, 2431, 2955, 2982, 3501, 3502, 3760, 3832, 4879
beans (*Phaseolus*) 463, 1703, 4804
beet 3677
Brassica 5012, 5014
carrots 2689, 3760
cauliflowers 4041
Cedrus 2669
Seed treatments *contd.*
cereals 1871, 2387, 2791, 3816
Cicer arietinum 2225, 4078, 4552
coffee 4309
Coix lachryma-jobi 2454, 2456
cotton 212, 908, 1054, 1521, 1522, 1985, 3878, 4315
cowpeas 908
Crotalaria juncea 680
cucumbers 792, 3326
Eleusine coracana 3514
faba beans 2715, 4531
groundnuts 495, 496, 498, 1721, 2938, 3706, 4072
Indian mustard 3313
jute 2504
Lablab purpureus 2743
Lolium perenne 2388, 4924
maize 171, 1912, 2445, 3155, 4277
marrows 4504
melons 1268
Nicotiana xanthi 4857
onions 512, 3724, 3760, 4561
peas 451, 453, 454, 1271, 3418, 4052, 4516, 4801
Pennisetum americanum 1923, 3514, 3852
rice 193, 1948, 3818, 3857
rye 2435
sesame 2938, 3609
sorghum 1919, 1920, 4281
soyabeans 480, 490, 2209, 2724, 2727, 2791, 4065
sunflowers 2938, 3184, 4399
swedes 955
tomatoes 757, 2146, 3993, 3996
turnips 955
Vigna radiata 503
wheat 36, 125, 126, 624, 989, 990, 999, 2407, 2955, 2969, 2978, 2979, 3480, 3485, 3492, 3818, 3829
Zinnia 237
Seedborne fungi, laboratory tests, plant extracts 1360
Seedborne organisms
Acremonium, maize 171
Albugo candida, radishes 4040
Alternaria
Brassica 5012
sorghum 186
Alternaria alternata
maize 4672
radishes 1688
Verbena 4334
wheat 1436
Alternaria brassicicola
cabbages 5017
Cicer arietinum 1735
Alternaria sesamicola, sesame 4398
Arabis mosaic virus
Nicotiana 4857
Rosa rugosa 1997
Ascochyta fabae, faba beans 3701
Ascochyta pisi, peas 4801
Aspergillus, Umbelliferae 1596
Aspergillus amstelodami, rape 2189
Aspergillus flavus, radishes 4040
Aspergillus niger, radishes 1688
Bacillus mesentericus vulgatus, soyabeans 3340
barley stripe mosaic virus 2907
cereals 2378
bean common mosaic virus 2907
beans (*Phaseolus*) 4520
bean pod mottle virus, soyabeans 3341
beet mild yellowing virus, beet 4493
Botryodiplodia theobromae
Lagenaria siceraria 4797
pines 2646
squash 4797
broad bean stain virus, faba beans 4808
broad bean true mosaic virus, faba beans 4808
cherry leaf roll virus, walnuts 1661
Cladosporium cladosporioides, radishes 1688
Cochliobolus lunatus
maize 4672
sorghum 186, 4281
Cochliobolus miyabeanus, rice 661
Cochliobolus sativus, *Lolium* 4341
Corynebacterium flaccumfaciens pv. *flaccumfaciens*, soyabeans 3340
Seedborne organisms *contd.*
cowpea aphid-borne mosaic virus, cowpeas 2217
cucumber green mottle mosaic virus 2907
Curvularia, sorghum 186
Curvularia pallescens, wheat 1436
Drechslera, *Lolium* 4341
Drechslera andersenii, *Lolium* 4341
Drechslera bicolor, sorghum 4281
Drechslera nobleae, *Lolium* 4341
Drechslera siccans, *Lolium* 4341
Fusarium
Araucaria 778
Araucaria heterophylla 779
maize 171
sorghum 186
soyabeans 3340
wheat 1436
Fusarium nivale, wheat 2979
Fusarium oxysporum
Araucaria 778
Araucaria heterophylla 779
Pseudotsuga menziesii 3299
Fusarium oxysporum f.sp. *conglutinans*, Brussels sprouts 1685
Fusarium oxysporum f.sp. *lycopersici*, tomatoes 2146
Fusarium oxysporum f.sp. *vasinfectum*, cotton 3530
Fusarium solani, *Araucaria* 778
Gibberella fujikuroi
maize 171
radishes 4040
sorghum 186, 4281
Gibberella zeae, maize 171
Gloeocercospora sorghi, sorghum 4281
Glomerella cingulata, *Zinnia* 237
groundnut mottle virus, lupins 3093
Helminthosporium
Araucaria heterophylla 779
maize 171
Leptosphaeria maculans, *Brassica* 5012
Leptosphaeria nodorum, barley 4271
lettuce mosaic virus, lettuce 820
Macrophomina phaseolina
melons 3325
radishes 4040
sesame 2068
Mucor, radishes 4040
Mycosphaerella pinodes, peas 4801
Nigrospora, maize 171
Penicillium, Umbelliferae 1596
Penicillium verrucosum var. *cyclopium*, rape 2189
Peronospora manshurica, soyabeans 3340
Phoma, wheat 1436
Phoma exigua, *Verbena* 4334
Phoma medicaginis var. *pinodella*, peas 4801
Phoma sorghina, sorghum 4281
Phomopsis leptostromiformis, lupins 259
Phomopsis sojae, soyabeans 3340
potato virus U 3208
Pseudomonas solanacearum, soyabeans 3340
Pseudomonas syringae pv. *glycinea*, soyabeans 493, 3340
Pyricularia oryzae, rice 3024
Pythium
Araucaria 778
Araucaria heterophylla 779
Rhizoctonia solani
Araucaria 778
Araucaria heterophylla 779
ryegrass spherical virus, *Lolium* 1543
Sclerotinia sclerotiorum, lettuce 508
Seiridium cardinale, *Cupressus* 4487
Setosphaeria turcica, sorghum 4281
soyabean mosaic virus, soyabeans 477
spice plants 2065
spinach latent virus, *Nicotiana* 4857
squash mosaic virus 2907
Stenocarpella macrospora, maize 171
strawberry latent ringspot virus
Rosa multiflora 1997
Rosa rugosa 1997
Thanatephorus cucumeris, beans (*Phaseolus*) 1274
Trichothecium roseum, *Lablab purpureus* 819
Verticillium albo-atrum, lucerne 2026
Verticillium lecanii, rape 2189

Seedborne organisms *contd.*
Xanthomonas campestris pv. *cucurbitae*, cucumbers 792
Xanthomonas campestris pv. *oryzae*, rice 4690
Seeds
deterioration
conferences 2763
fungi 2770
insects 2770
resistance 2771
infection 2769
pathogenesis 2769
***Seiridium*, Coniferae** 4474
Seiridium cardinale
Cupressaceae 4489
Cupressocyparis leylandii 4474
Cupressus 1677, 3672, 4011, 4487, 4781, 4782
Cupressus sempervirens 428
storage 2170
toxins 2170
***Seiridium cupressi*, nomenclature** 4474
Seiridium unicorne
Cryptomeria japonica 4474
Cupressaceae 4489
Semipseudocercospora peristrophes-acuminatae*, *Peristrophe acuminata 4622
Senegal, crops, diseases 1793
Senna, *Alternaria alternata*, India 4744
***Septocyta ruborum*, blackberries** 2049
Septoria
Aster 2505
Callistephus 2505
cereals 3478
citrus 2756, 4099
wheat 1878, 2391, 2392
***Septoria apiicola*, celery** 2690, 5019
***Septoria arethusa*, citrus** 1514
***Septoria bromi*, Canada** 2885
Septoria chrysanthemella*, *Chrysanthemum 4324
***Septoria citri*, citrus** 1514
***Septoria cucurbitacearum*, CMI descriptions** 85
***Septoria elymi*, Canada** 2885
***Septoria glycines*, soyabeans** 808, 3705, 4809
***Septoria helianthi*, sunflowers** 4401
***Septoria lycopersici*, tomatoes** 610, 1210, 2796
***Septoria passerinii*, Canada** 2885
Septoria pulcherrima*, *Eucalyptus nitens 4465
Septoria veronicae*, *Hebe 3541
***Serpula lacrimans*, buildings** 2178
Sesame
Alternaria alternata, varietal reactions 4740
Alternaria sesami
crop loss 728
India 728
varietal reactions 728
Alternaria sesamicola
aetiology 4398
seed transmission 4398
Cercospora, varietal reactions 3175
Cercospora sesami, control 3178
diseases, control 2938
Drechslera neergaardi, seed 1147
Erysiphe cichoracearum
control 3178
varietal reactions 3176
fungicides, phytotoxicity 727, 3609
Fusarium oxysporum f.sp. *sesami*
physiology 1606
research 3177
varietal reactions 1607
Fusarium solani, Andhra Pradesh 1766
Macrophomina phaseolina, seedborne organisms 2068
Oidium acanthospermi, susceptibility 3174
Phoma nebulosa, seed 1147
Phoma sesamina, Andhra Pradesh 1766
phyllody
growth regulators 3173
symptoms 3173
Phytophthora nicotianae var. *parasitica*
Korea Republic 3934
symptoms 3934
Rhizoctonia solani, plant oils 1144
Sesame *contd.*
Synchytrium sesamicola
environmental factors 4741
temperature 4741
***Sesbania aegyptiaca*, *Phellinus pachyphloeus*, physiology** 1384
***Sesbania punicea*, *Erysiphe pisi*, South Africa** 4861
Sesquicillium candelabrum*, *Pseudotsuga menziesii 3300
***Setaria geniculata*, *Beniowskia sphaeroidea*, Georgia** 1765
***Setaria verticillata*, *Sclerospora graminicola*, India** 1020
Setosphaeria rostrata
Chrysalidocarpus lutescens 218
palms 346
physiology 4280
sorghum 3001
tomatoes 2153
Setosphaeria turcica
cereals 2954
laboratory tests, plant extracts 2282
maize 650, 1012, 1479, 1484, 2992, 2997, 3405, 3509, 4676
physiology 4280
sorghum 4281
Sorghum halepense 4921
Sudan grass 4921
Sewage, bacteriophages 3416
Shallot latent virus
CMI/AAB descriptions 89
shallots 511
Shallots, viruses, Belgium 511
***Shorea robusta*, fungicidal properties** 1936
Shrubs
diseases, Czechoslovakia 1652
fluorine, tolerance, industries 3657
mycorrhizas, Tanzania 547
Sibutol, seed treatments, wheat 624
Sicarol
activity, fruit trees 3099
control, *Hemileia vastatrix*, coffee 1979
Sickosul, control, *Podosphaera leucotricha*, apples 1103
Sida linifolia
Hibiscus esculentus mosaic virus
Nigeria 2917
strains 2917
Sierra Leone, rubber, soil fungi 372
Sikkim, peas, *Erysiphe polygoni* 4053
Singapore
Brassica, *Pythium aphanidermatum* 1256
crops, diseases 1861
maize, *Ustilago maydis* 2880
***Sirococcus strobilinus*, pines** 420
Sisthane
control
Polyscytalum pustulans, potatoes 2615
potatoes, diseases 2102
seed treatments, rice 193
***Sisymbrium irio*, *Spiroplasma citri*, Arizona** 102
***Sitobion avenae*, transmission, barley yellow dwarf virus** 1498, 1845, 4868
Sitodiplosis mosellana*, interactions, *Leptosphaeria nodorum 2972
***Sitona lineatus*, transmission, broad bean mottle virus** 4808
***Skeletocutis nivea* var. *diluta*, pines** 2650
Small fruits
diseases, Italy 3098
viruses
certification 3096
German Democratic Republic 1113
Italy 3095, 3096
Smuts (see Ustilaginales)
Snails, *Phytophthora palmivora*, survival 338
Sodium arsenite
control
grapevines, diseases 4387
Phomopsis viticola, grapevines 337
Sodium benzoate, control, potatoes, bacterial diseases 2120
Sodium hypochlorite
activity, cabbages, black speck 4501
control, *Alternaria solani*, potatoes 1619
seed treatments
citrus 3863
sorghum 4281
Sodium omadine, laboratory tests, *Corynebacterium michiganense* pv. *michiganense* 3997
Sodium 2-phenylphenolate
control
Botryodiplodia theobromae, grapefruits 2494
Diaporthe citri, grapefruits 2494
Sodium silicate, surfactants 273
***Sogatella cubana*, transmission, coconuts, dry bud rot** 2076
***Sogatella kolophon*, transmission, coconuts, dry bud rot** 2076
Soil 2524
Acaulospora, Iowa 2297
Actinomycetaceae, antagonism, fungi 4848
Agrobacterium, isolation 3747
Agrobacterium tumefaciens, isolation 3166
Alternaria, spread, rodents 4222
amoeba, interactions 583
bacteria, antagonism 4188, 4448
barley yellow mosaic virus, survival 1458
Beauveria bassiana, isolation 1826
Botrytis allii, persistence 514
Clostridium, biology 858
Cochliobolus sativus
amoebae 4229
isolation 1823
microorganisms 4186
Saskatchewan 921
Cochliobolus victoriae, soil fungistasis 2321
control, *Cryphonectria parasitica*, chestnuts 3660
Curvularia spicata, Saskatchewan 921
fungi
control 65
environmental factors 2324
interactions 583
Iraq 1043
isolation 1826
Korea Republic 4899
Madhya Pradesh 2863
mycorrhizas 1371
oranges 1043
rice 194, 4899
rubber 372
Saudi Arabia 909, 910, 4851
Sudan 4424
trees 4452
Fusarium
antagonism, *Trichoderma viride* 2865
environmental factors 4183
isolation 3783, 4184
UK 4183
Uttar Pradesh 4181
Fusarium crookwellense, geographical distribution 1831
Fusarium oxysporum
Heterodera glycines 68
suppression 4350
Fusarium oxysporum f.sp. *cucumerinum*, soil conditions 63
Fusarium oxysporum f.sp. *melonis*
distribution 4508
fumigation 4508
Fusarium solani
Heterodera glycines 68
survival 3379
Fusarium udum
sawdust 2323
transmission 2742
Gigaspora, Iowa 2297
Glomus, Iowa 2297
Glomus clarum, spore germination 2866
Glomus etunicatum, spore germination 2866
Glomus macrocarpus, spore germination 2866
Laetisaria arvalis
counting 2867
isolation 2867
Macrophomina phaseolina
isolation 66
survival 4187
Magnaporthe salvinii, plant residues 1951
metalaxyl, persistence 4129
Metarhizium, isolation 1826
methyl bromide, residues 4554
microbiology, crops, books 4615

Soil *contd.*
Mortierella, soil fungistasis 2321
Nocardia salmonicolor, antibiotics 38
Penicillium caerulescens
antifungal agents 4182
Spain 4182
Phytophthora cinnamomi
assays 578
survival 2871, 4847
Phytophthora megasperma f.sp. *glycinea*, isolation 582
Phytophthora megasperma var. *sojae*, New Zealand 1748
Phytophthora palmivora, survival 338
plant pathogens, disease models 2322
Pseudocercosporella herpotrichoides, isolation 2977
Pseudomonas, octopine 1345
Pseudomonas putida, soil fungistasis 1824
Pseudomonas solanacearum
detection 4431
spread 4433
survival 4123, 4432
Pseudomonas solanacearum var. *asiaticum*, survival 1758
Pythium
disease models 2322
distribution 3555
isolation 4761
survival 802
Pythium aphanidermatum
beet 1679
biological control 64
Pythium irregulare, control 3057
Pythium oligandrum, India 2883
Pythium splendens, suppression 4616
Pythium ultimum
control 3057
soil amendments 2869
soil water potential 2869
Pythium vanterpoolii, USSR 1000
Rhizoctonia solani
biological control 64
New Mexico 3708
soil fungistasis 2677
suppression 2870, 3953, 4616
survival 1508, 3054
Texas 3708
rhizosphere fungi, Madhya Pradesh 4452
Sclerospora graminicola
infectivity 1828
spore germination 1828
Sclerotinia minor
isolation 4550
sclerotia 4550
survival 4550
Sclerotinia sclerotiorum, viability 69
Sclerotium rolfsii, biological control 64
Streptomyces, antagonism 4448
Synchytrium endobioticum
German Federal Republic 4755
survival 4755
tomato bushy stunt virus, transmission 2914
triadimefon, residues 4650
Trichoderma
competitive ability 4617
isolation 580, 4184
Trichoderma harzianum, pesticides 581
Typhula ishikariensis, Hokkaido 2524
Verticillium albo-atrum, survival 2611
Verticillium dahliae
soil fungistasis 1390
survival 1827
vinclozolin, residues 2280
Xanthomonas campestris pv. *campestris*, isolation 4125

Soil amendments
activity
fungicides 908
Fusarium solani 3379
Fusarium udum 2323
control
ginger, diseases 3193
Rhizoctonia solani, rice 1508
Sclerotium rolfsii, potatoes 2113
Fusarium
Chrysanthemum 4865
flax 4865
mycorrhizas, *Agropyron trachycaulum* 2828
Pythium ultimum, soil 2869

Soil amendments *contd.*
Rhizoctonia solani, soil 2870
Soil fumigants, mycorrhizas 557
Soil fungi
activity
Alternaria palandui 3445
Cochliobolus lunatus 3445
environmental factors 67
ornamentals 31
techniques
identification 577
isolation 577
tomatoes 4185
Soil fungistasis
Cochliobolus victoriae 2321
crops, diseases 907
cucumbers, *Fusarium* 1824
environmental factors 1390
flax, *Fusarium* 1824
forest trees, *Phytophthora cinnamomi* 4009
Lathyrus sativus 2864
Mortierella 2321
pigeon peas 2864
radishes, *Fusarium* 1824
Soil treatments
activity
Pythium splendens, soil 4616
Rhizoctonia solani, soil 4616
soyabeans 3704
applications
aldicarb 2076
ammonia 4238
basamid 3245
bayleton 1 GR 3142
benomyl 230, 1075, 1268, 1894, 3068, 3823, 4185, 4321
captan 3704
carbendazim 1894, 4554
CGA 64251 223
chlorides 1888
chloropicrin 280, 389, 3245
dazomet 1527, 3072, 3236, 3245
dexon 230
di-trapex 3236
di-trapex CP 3245
diallyl-disulphide 826
dichloropropane 3236, 3245, 4508
dichloropropene 3072, 3236, 3245, 4508
dicid 4374
efosite aluminium 1515
ethoprophos 3236
fenaminosulf 230
fongarid 2512
formaldehyde 4185
furalaxyl 2512
heat treatment 1527
insecticides 2719
maneb 1268
metalaxyl 877, 1515, 2281, 2512, 4476, 4557
metham-sodium 389, 2231, 3236, 3245, 3704, 4374
methyl bromide 280, 389, 1527, 2225, 2817, 3072, 3236, 3823, 3829, 4185, 4554, 5014
methyl isothiocyanate 3236, 3245, 4508
nematicides 4386
nematin 4374
NK 483 3680
pencycuron 1061
plastic mulches 662, 2247, 4508
previcur N 2512
propamocarab 3704
propylene oxide 4616
prothiocarb 2512
quintozene 4056, 4185, 4920
ridomil 809, 2512, 4557
steam 2368, 4616
thiophanate-methyl 4185
thiram 1268
tolclofos-methyl 1061
triadimefon 223, 3142
Trichoderma harzianum 4321
truban 1075
vapam 3236, 3245, 3704
vorlex 4508
zinc sulphate 1988
zineb 1253

Soil treatments *contd.*
control
Arabis mosaic virus, *Lilium tigrinum splendens* 3072
Brassica, diseases 5014
Bremia lactucae, lettuce 4557
coconuts, dry bud rot 2076
Fusarium oxysporum f.sp. *dianthi*, carnations 4321
Fusarium oxysporum f.sp. *fatshederae*, *Fatshedera lizei* 3068
Fusarium oxysporum f.sp. *melonis*, melons 4508
Fusarium oxysporum f.sp. *radicis-lycopersici*, tomatoes 2147
Fusarium oxysporum f.sp. *vasinfectum*, cotton 1988
Fusarium roseum, wheat 3823
Gaeumannomyces graminis, wheat 1894, 3829
Iris, diseases 4920
lettuce, big vein 4554
Lilium, diseases 230
Magnaporthe salvinii, rice 662
melons, diseases 1268
Mycosphaerella musicola, bananas 3142
Oidium begoniae, *Begonia* 223
peach rosette mosaic virus, grapevines 4386
Phytophthora cactorum, apples 1564
Phytophthora cinnamomi, *Abies fraseri* 4476
Phytophthora nicotianae var. *nicotianae*, gloxinia 2512
Phytophthora nicotianae var. *parasitica*, lemons 1515
Plasmodiophora brassicae, cabbages 1253, 3680
Puccinia recondita, wheat 1888
Pyrenochaeta lycopersici, tomatoes 389, 3245
Pythium, soyabeans 809
Pythium aphanidermatum, roses 1075
Pythium ultimum
apples 1564
Cicer arietinum 2225
Rhizoctonia solani
beans (*Phaseolus*) 4056
carnations 1061
roses 1075
root rots, wheat 3823
Sclerotinia minor, lettuce 2231
Sclerotium cepivorum, onions 826
Sclerotium rolfsii, groundnuts 496
soil fungi, tomatoes 4185
soyabean dwarf virus, soyabeans 2719
strawberries, diseases 4374
tomatoes, brown root rot 3236
vegetables, diseases 877
Verticillium albo-atrum
Catalpa 1664
strawberries 280
Verticillium dahliae, eggplants 2247
wheat, root rots 4238
phytotoxins 2368
Rhizoctonia solani, *Actinidia chinensis* 1527
Soilborne pathogens, reviews 4849
Solanaceae
eggplant virus, infection 833
viruses, quarantine 2805
Solanum acaule, viruses, resistance 3619
Solanum andigenum, viruses, resistance 3619
Solanum berthaultii
pheromones 4634
potato virus Y, transmission 2092
Solanum chancayense, potato virus U, infection 3208
Solanum gilo, *Stemphylium floridanum*, Ivory Coast 1151
Solanum melongena (see Eggplants)
Solanum mochisense, potato virus U, infection 3208
Solanum nigrum
Pyrenochaeta lycopersici 389
Rhizoctonia solani, Netherlands 1177
tobacco bushy-top virus, infection 3979
Verticillium albo-atrum, survival 2611
Solanum palinacanthum, mycorrhizas, Brazil 3773

Solanum rugosum, *Crinipellis perniciosa,* hosts 8
Solanum seaforthianum, tomato leaf curl virus, infection 3988
Solanum stoloniferum, viruses, resistance 3619
Solanum tuberosum (see Potatoes)
Solanum tuberosum ssp. andigena, *Erwinia chrysanthemi,* resistance 2623
Solar heating
control
Fusarium oxysporum, strawberries 2558, 2559
Iris, diseases 4920
soil fungi 3784
tomatoes, brown root rot 3236
Solar radiation, seed treatments, soyabeans 2727
Solvochin extra
laboratory tests
Pseudomonas syringae 1347
Valsa cincta 1347
SOPP (see Sodium 2-phenylphenolate)
Sorbic acid, control, *Cicer,* storage decay 5045
Sorghum
Aspergillus flavus, aflatoxins 1919
brome mosaic virus, interactions 1492
Colletotrichum graminicola
characteristics 1418
pollen 184
Punjab 180
varietal reactions 181
diseases
control 2954, 4281
India 2449
seed 4281
Taiwan 4281
testing 2449
Thailand 2449
Upper Volta 2449
fungi
roots 3512
stems 3512
Helminthosporium, physiology 4280
Hymenula cerealis
crop loss 183
Mexico 183
symptoms 183
USA 183
Macrophomina phaseolina
control 4891
irrigation 651
maize dwarf mosaic virus
evaluation 3850
inoculation 3850
symptoms 4890
testing 2447
Venezuela 179
yield losses 4890
Periconia circinata
electron microscopy 4282, 4283
mycotoxins 4282, 4283
Peronosclerospora sorghi
Botswana 182
India 182
oospores 1011
pathotypes 3000
resistance 178
sources 4649
Texas 3000
USA 182
varietal reactions 182
Venezuela 182
Puccinia purpurea, resistance 178
seedborne fungi
control 186, 1920
Puerto Rico 186
Setosphaeria rostrata
host parasite relationships 3001
phenols 3001
Sphacelotheca reiliana
China 185
crop loss, models 1494
resistance 178
varietal reactions 185
sugarcane mosaic virus
Australia 178
breeding 178
crop loss 98
homeopathy 3851
host parasite relationships 1493
inoculation 96
Sorghum *contd.*
sugarcane mosaic virus *contd.*
interactions 1492
sources 4649
strains 1195
varietal reactions 182
Thanatephorus cucumeris
aetiology 1495
hosts 1495
Sorghum arundinaceum
Peronosclerospora sorghi, hosts 4649
sugarcane mosaic virus, hosts 4649
Sorghum halepense
maize chlorotic dwarf virus, transmission 3506
maize dwarf mosaic virus, spread 3506
Peronosclerospora sorghi, hosts 4649
Setosphaeria turcica, deterioration 4921
sugarcane mosaic virus, hosts 4649
Sorghum nervosum, *Tolyposporium ehrenburgii,* India 2448
Sorghum nitida, *Peronosclerospora sorghi,* Thailand 4220
Sorghum sudanense (see Sudan grass)
Sorghum verticilliflorum
Peronosclerospora sorghi, hosts 4649
sugarcane mosaic virus, hosts 4649
Sorghum vulgare (see sorghum)
South Africa
apples, *Venturia inaequalis* 3108
avocados, bacterial diseases 4954
Bidens formosa, Sphaerotheca xanthii 4861
Dahlia, Erysiphe cichoracearum var. *transvaalensis* 4861
Fusarium crookwellense, hosts 1831
mushrooms, *Peziza ostracoderma* 5051
pines
diseases 2174
Verticicladiella 4025
plant diseases 2360
bibliographies 2935
plant pathogens 2360
Sesbania punicea, Erysiphe pisi 4861
sugarcane, diseases 1193
Zinnia, Erysiphe cichoracearum var. *transvaalensis* 4861
South America
coconuts, lethal yellowing 3936
coffee, *Hemileia vastatrix* 2496
Euphorbiaceae
Elsinoë 3398
Sphaceloma 3398
South Australia
apples, *Phytophthora* 1558
cherries, *Phytophthora* 1558
lupins, *Phomopsis leptostromiformis* 259
strawberries, *Phytophthora fragariae* 4941
wheat, *Ustilago nuda* 4876
South Carolina
oak
decline 3268
Hypoxylon atropunctatum 3268
South East Asia
coconuts, cadang-cadang 2074
palms, cadang-cadang 2074
yams, Uredinales 2250
South Georgia, mycorrhizas 4146
Sowbane mosaic virus, *Atriplex suberecta* 5064
Soyabean dwarf virus, soyabeans 2208, 2719, 3342
Soyabean mosaic virus
beans (*Phaseolus*) 3331, 4519
detection 1284
soyabeans 474, 477, 478, 479, 1285, 1286, 2720, 3342, 4062, 4063, 4537, 5032
strains 1284
Soyabeans
Agrobacterium tumefaciens, tissue cultures 5038
air pollution, activity 4546
Aristastoma camarographioides
India 2211
symptoms 2211
bacterial diseases
USSR 2728
varietal reactions 2728
bean pod mottle virus
epidemiology 4061
Kentucky 4061
Soyabeans *contd.*
bean pod mottle virus *contd.*
Nebraska 3341
seed pathology 474
transmission 3341
blackgram mottle virus, Thailand 1692
Cercospora kikuchii
control 2721, 3346
enzymes 1289
hosts 1290
interactions 1717
seed germination 1717
seed pathology 474
Colletotrichum, infection 807
Colletotrichum truncatum
control 4812
growth regulators 4539
herbicides 4543
physiology 4812
yield losses 810
cowpea mild mottle virus, transmission 3465
cowpea mosaic virus, Cuba 806
Cylindrocladium crotalariae, interactions 3345
Diaporthe
Mississippi 3344
sources 3344
Diaporthe phaseolorum, hosts 5035
Diaporthe phaseolorum var. *sojae*
culture 4810
Hungary 1287
reviews 1287
seed testing 481
USA 481
diseases
Argentina 4099
Brazil 476, 3343
control 1693, 3343, 4538
diagnosis 3702
resistance, reviews 4060
seedborne organisms 3340
fungi
leaves 491
Mississippi 2725
pods 491
seed coats 486
seeds 491
Fusarium oxysporum
interactions 1291
varietal reactions, breeding 1712
Gaeumannomyces graminis var. *graminis,* Indiana 484
Gigaspora gigantea, mycorrhizas, inoculation 559
Glomerella, infection 807
Glomus fasciculatum
mycorrhizas
interactions 4151
measurement 4153
groundnut mottle virus
epidemiology 3093
yield losses 3093
Macrophomina phaseolina, herbicides 489
metalaxyl, uptake 492
mineral deficiencies
manganese, diagnosis 5039
molybdenum, diagnosis 5039
mycorrhizas, environmental effects 59
ozone
activity 4223
fertilizers 3351
yield losses 3351
Peronospora manshurica
control 2801
environmental factors 487
enzymes 487
oospores 2726
photosynthesis 2726
quarantine, India 3349
Phakopsora pachyrhizi
genetics 4542
infection 4540
penetration 4540
races 4541
Taiwan 4541
Phialophora gregata
Japan 3690
pathogenicity 3690
USA 3690
varietal reactions 3690

Soyabeans *contd.*
Phomopsis
environmental factors 474
herbicides 4543
interactions 1717
lectins 2212
Mississippi 3344
seed pathology 474
sources 3344
phytoalexins 2202, 3339
bactericidal activities 4545
Phytophthora, ultrastructure 1411
Phytophthora megasperma, morphology 2890
Phytophthora megasperma f.sp. *glycinea*
control 1288, 1713, 4065
enzyme activity 812
genetics 2210, 5036
histopathology 4064
host parasite relationships 3347, 3348, 4544, 5033
nodulation 4544
phytoalexins 482, 1715, 3347, 3348
Queensland 2213
races 2213, 5036
resistance 1710, 1714
varietal reactions 1714, 2213, 4065, 5033
Phytophthora megasperma var. *sojae*
breeding 485
genetics 485
hyperparasitism 811
interactions 1711
Japan 4811
races 2722, 2723
testing 483
varietal reactions 2722, 2723, 4811
Pseudomonas
seed treatments 2727
USSR 2727
Pseudomonas syringae, phytoalexins 5037
Pseudomonas syringae pv. *glycinea*
Egypt 1292
host parasite relationships 3350
Hungary 1718
Italy 493
resistance 1719
symptoms 1294
varietal reactions 1292, 1718
Pseudomonas syringae pv. *syringae*
Canada 1293
strains 1293
Pythium
control 809
symptoms 809
Pythium ultimum, infection 1709
Rhizobium japonicum
fungi 3704
soil treatments 3704
Rhizoctonia solani
biological control 2209
control 2209
interactions 1291
seed treatments 2724
Sclerotinia, hosts 5066
Sclerotinia sclerotiorum
Korea Republic 488
testing 5034
varietal reactions 5034
Sclerotium rolfsii
enzymes 1716
pathogenesis 1716
pathogenicity 3186
seed treatments 480, 2791
activity 490
seedborne organisms, harvest date 475
Septoria glycines
infection 808
laboratory tests 808
varietal reactions 4809
yield losses 3705
soyabean crinkle leaf
hosts 3703
Thailand 3703
transmission 3703
soyabean dwarf virus
control 2719
Nigeria 2208, 3342
soyabean mosaic virus
assays 478
cytology 4062
detection 4063

Soyabeans *contd.*
soyabean mosaic virus *contd.*
epidemiology 1286, 5032
growth 479
Nigeria 3342
resistance 4537
seed pathology 474
seed testing 477
strains 1285, 4062
transmission 1285, 5032
varietal reactions 1286, 2720
yield losses 4537
sugarcane mosaic virus, characteristics 97
sulphur dioxide
damage
morphology 4813
Taiwan 4813
environmental factors 2214
Thanatephorus cucumeris, infection 1495
tobacco ringspot virus, assays 478
Verticillium albo-atrum, susceptibility 968
***Spadicoides sphaerospermum,* Chionochloa** 2326
Spain
citrus
citrus tristeza virus 4302
viruses 4303
Deuteromycetes 919
grapevines, *Botrytis cinerea* 310
Melanconiaceae 919
pines, *Leptographium gallaeciae* 4480
safflower, *Alternaria carthami* 339
soil, *Penicillium caerulescens* 4182
Sphaeropsidaceae 920
Sparassis crispa
pines 413
Pseudotsuga menziesii 413
Spathiphyllum
Cylindrocladium spathiphylli
Florida 1077
taxonomy 1077
Sphaceloma
Euphorbiaceae 3398
taxonomy 3398
Sphaceloma poinsettiae, nomenclature 3398
Sphacelotheca destruens,* Panicum *miliaceum 3513
Sphacelotheca reiliana
maize 4887
sorghum 178, 185, 1494
Sphaerophragmium acaciae,* Albizia *odoratissima 4021
Sphaerophragmium longicorne,* Dalbergia *hostilis 3281
Sphaeropsidaceae, Spain 920
***Sphaeropsis tumefaciens,* Nerium oleander** 2012
Sphaerostilbe repens, enzymes 4165
Sphaerotheca fuliginea
Ampelomyces quisqualis, hyperparasitism 789, 4505
cucumbers 447, 789, 2196, 2288, 2696, 2698, 3688, 4505
Cucurbitaceae 446
hosts 4642
marrows 3737
melons 788, 2700
spore germination 4197
Taiwan 4642
Sphaerotheca lanestris, eggplants 1757
Sphaerotheca macularis
hops 3168, 3927
raspberries 1419
strawberries 1126
Sphaerotheca mors-uvae, black currants 3134, 4373
Sphaerotheca pannosa, roses 219, 234
Sphaerotheca pannosa* var. *persicae, peaches 4365
Sphaerotheca pannosa* var. *rosae, roses 686
Sphaerotheca xanthii, Bidens formosa 4861
Spice plants
diseases
German Democratic Republic 3170
India 4104
seedborne fungi 2065
India 3929
Spilocaea amelanchieris, Amelanchier 1412
Spinach
Albugo occidentalis, control 3678

Spinach *contd.*
Fusarium oxysporum f.sp. *spinaciae*
Japan 4033
testing 4033
varietal reactions 4033
Peronospora farinosa
control 3678
races 781
Texas 781
Peronospora spinaciae, sulphur dioxide 4866
Pythium butleri, oospores 2344
sulphur dioxide
damage 782, 783
biochemistry 1681
viruses
characteristics 2679
hosts 2679
Japan 2679
symptoms 2679
Spinach latent virus, *Nicotiana* 4857
Spiropes guareicola
hyperparasitism, *Meliola* 208
oranges 208
Spiroplasma
Calliandra haematocephala 3064
coconuts 2077
flowers 1410
genetics 4216
maize 2437
pears 3124
reviews 3807
taxonomy 949
ultrastructure 4216
vectors 4216
viruses, characterization 4216
Spiroplasma citri
Barbarea vulgaris 3190
Callistephus chinensis 3190
Catharanthus roseus 2520
cherries 3129
citrus 3807
enzymes 103
Euscelidius variegatus 2520
horseradish 3189, 3190
hosts 102
relationships 4217
serology 3467
taxonomy 949
transmission 3808, 3809
turnips 3190
Spiroplasmataceae, nomenclature 3744
Spongospora subterranea, potatoes 736, 4096, 4411, 4747
Spore dispersal
Alternaria 3010
Alternaria helianthi 3935
Aspergillus glaucus 4588
Botryosphaeria dothidea 4935
Botrytis cinerea 4527
Cercospora effusa 1225, 2166
Curvularia 3010
Drechslera poae 246
Erysiphe graminis 2426
Gerlachia oryzae 200
Gibberella zeae 146
Helminthosporium 3010
Leptosphaeria maculans 1399
Nigrospora 3010
Peronospora destructor 824
Peronospora tabacina 3649, 4430
Pseudocercosporella herpotrichoides 1399, 2413, 3493
Puccinia graminis 4245
Pyrenopeziza brassicae 2191
Pyricularia oryzae 3019, 3020
Sclerotinia squamosa 4565, 5053
Spore germination
Aphanomyces euteiches 4608
Colletotrichum circinans 4560
Cronartium ribicola 5003
Endogone incrassata 1367
Endogone pisiformis 3776
Glomus caledonium 47
Phytophthora megasperma f.sp. *medicaginis* 3778
Plasmopara viticola 3923
responses, terminology 3408
Sporidesmium sclerotivorum
cultures 2855
hyperparasitism, *Sclerotinia* 2855
Sporobolomyces roseus, wheat 2414
Sporobolus, Bipolaris 239

Sportak 50 WP, control, mushrooms, diseases 1314
Spray drift, grapevines 2562
Spraying equipment 869, 1839, 1840, 3873, 4310
testing 2276
Spruce
Armillaria, interactions 2254
Ceratocystis
bark beetles 4780
water relations 4780
Chrysomyxa ledi
environmental factors 104
USSR 104
Cryptosporiopsis abietina, antagonism 423
fluorine, resistance 3302
fungi, resistance 424
Fusarium, lignocellulose, degradation 3782
Gremmeniella abietina, susceptibility 3286
Heterobasidion annosum
antagonists 423
resistance 3301
toxins 3289, 4028
mycorrhizas
infection 41
inoculation 4606
Phaeolus schweinitzii
ecology 2254
interactions 2254
root and butt rots, German Federal Republic 413
sulphur dioxide
damage 775, 777
testing 775
Thelephora terrestris, mycorrhizas, phosphorus 548
Therrya piceae
British Columbia 2666
symptoms 2666
Valsa kunzei, environmental factors 3671
wounds, monoterpenes 424
Squash
boron, toxicity, irrigation 3813
Botryodiplodia theobromae, seeds 4797
Erysiphe cichoracearum
genetics 4507
varietal reactions 4507
Fusarium oxysporum f.sp. *niveum,* varietal reactions 3324
pumpkin mosaic virus, activity 1260
squash mosaic virus, Morocco 1690
viruses
detection 1845
resistance 3684
varietal reactions 3684
watermelon mosaic virus
Arkansas 2692
enzyme activity 4502
Italy 4792
Squash mosaic virus
Chenopodium album 1690
Chenopodium quinoa 1690
cucumbers 1690
detection 2907
melons 1690, 2691
squash 1690
Sri Lanka
rubber, *Fusarium solani* 4423
tea, diseases 1200
Stagonospora
Hippeastrum 3057
Narcissus 3057
Stagonospora arenaria, *Dactylis glomerata* 3087
Stagonospora meliloti, lucerne 1088
Stagonospora sacchari, sugarcane 740, 744, 2625
Steam, soil treatments 4616
Steccherinaceae, books 70
Stellaria media, turnip mosaic virus, sources 3310
Stemphylium floridanum, *Solanum gilo* 1151
Stemphylium globuliferum, lucerne 4348
Stemphylium ilicis, apples 3905
Stemphylium sarciniforme, Canada 74
Stemphylium solani
sporulation 2150
tomatoes 2150, 2156
Stemphylium vesicarium
asparagus 1747
lucerne 4348
tomatoes 4440
Stenella aeglicola, taxonomy 2326
Stenella bougainvilleae, *Bouganvillea spectabilis* 918
Stenella gahniae, *Gahnia setifolia* 2326
Stenella scleriae, *Scleria polycarpa* 2326
Stenocarpella macrospora, maize 171, 4885
Stenotaphrum dimidiatum, *Ceratosphaeria grisea,* resistance 4925
Stenotaphrum secundatum
Ceratosphaeria grisea, varietal reactions 4925
Panicum mosaic virus St. Augustine grass decline str.
Arkansas 2529
varietal reactions 3086
Stereum hirsutum, grapevines 4387
Sterols
activity
Phytophthora cactorum 2311
Phytophthora katsurae 4161
Stigmina carpophila, fungicides, evaluation 31
Stigmina thujina, *Chamaecyparis lawsoniana* 425
Stilbella cinnabarina, avocados 1127
Stone fruits
Chondrostereum purpureum, biological control 3097
diseases
New Zealand 4362
North America 4362
Monilinia laxa
fungicide tolerance 4938
Israel 4938
mutants 4938
Pseudomonas
Hungary 1576
symptoms 1576
Valsa cincta, Hungary 1576
viruses
certification 3096
Italy 3095, 3096
western X disease
transmission 1107
vectors 1107
Storage decay
Actinidia chinensis 1132, 3596
apples 271, 1559, 1560, 1565, 3107, 3562, 3563, 3910
avocados 1127, 3586, 3589, 4946
barley 3836
beans (*Phaseolus*) 4804
cantaloupes 5022
carrots 443
cassava 1324
cereals 2376
cherries 3130
Cicer arietinum 5045
Cicer kabulinum 5045
Colocasia antiquorum 4087
cowpeas 2733, 2734
cranberries 2044
Cucurbitaceae 2198
grapefruits 2494
grapevines 3163
groundnuts 1725, 4548
guavas 1129, 3144
Hibiscus esculentus 1859
maize 1912, 2438
mangoes 1585, 4955
onions 1743, 1867, 2748
oranges 1519, 4305, 4306, 4909
peaches 1108, 1559, 1560, 2042
pears 1559, 1560, 1859, 3551
pecans 4998
potatoes 1158, 1159, 1622, 1867, 2079, 2080, 2102, 2109, 2110, 2111, 2116, 2120, 2592, 2617, 2623, 3633, 3944, 4421, 4747
rice 1038
sorghum 1919
strawberries 3139
tobacco 3220
tomatoes 2144, 3237
Vaccinium corymbosum 3131, 3577, 4372
wheat 126, 127, 1435, 4651
yams 527
Ziziphus mauritiana 2057
Storage disorders
apples 700, 1096, 1567, 2550, 3114, 3119, 3122, 3123, 3911, 4361
cabbages 4501
cocoa 8
crops, Caribbean 4584
groundnuts 1295
peaches 700
pears 1096
pineapples 2055
plums 4718
sweet potatoes 4088
tomatoes 2159
Strasseria oxycocci, cranberries 2044, 2045
Strawberries
Botrytis cinerea
control 281, 2557, 3136, 3137, 3582
controlled atmosphere storage 3139
fungicide tolerance 4596
clover phyllody, serology 3467
Colletotrichum fragariae
Arkansas 3916
control 3916
histology 1581
diseases
control 1122
German Democratic Republic 1122
Netherlands 2541
UK 1419
fungi
mycorrhizas 56
Turkey 3138
fungicides, translocation 872
Fusarium equiseti, host parasite relationships 1121
Fusarium oxysporum
control 2558, 2559
host parasite relationships 1121
Korea Republic 1123
varietal reactions 1123
Fusarium solani, host parasite relationships 1121
green petal, serology 3467
Mycosphaerella fragariae, control 3136
Phytophthora cactorum
control 281, 3915
Hungary 2048
Ohio 3581
symptoms 2048
yield losses 3581
Phytophthora fragariae
control 1125
environmental factors 1124
isolation 3140
oospores 1124
South Australia 4941
Switzerland 715
varietal reactions 1115
Rhizoctonia fragariae, pathotypes 1582
soilborne pathogens, control 4374
Sphaerotheca macularis
genetics 1126
varietal reactions 1126
strawberry mottle virus, Arkansas 279
strawberry pallidosis virus, Arkansas 279
strawberry veinbanding virus, Arkansas 279
Verticillium albo-atrum
control 280
environmental factors 280
Florida 280
varietal reactions 1115
Verticillium dahliae, varietal reactions 1115
Strawberry crinkle virus, transmission 1580
Strawberry latent ringspot virus
Chenopodium amaranticolor 939
grapevines 939
olives 4727
rhubarb 517
RNA 946, 1853
roses 1997
Strawberry mottle virus, strawberries 279
Strawberry pallidosis virus, strawberries 279
Strawberry veinbanding virus, strawberries 279
Streptocycline, control, *Xanthomonas campestris* pv. *vesicatoria, Capsicum* 1752
Streptomyces
activity, plant pathogens 907

***Streptomyces* contd.**
antagonism
Phellinus weirii 4448
plant pathogens 2717
potatoes 4409, 4411
seed treatments, faba beans 2715
soil 4448
Streptomyces cinnamomeous*, *Eleusine coracana 563
***Streptomyces gougeroti*,** activity, plant pathogens 907
***Streptomyces graminearus*,** control, *Gibberella zeae*, wheat 4666
Streptomyces griseus
antagonism, *Alternaria solani* 4828
antibiotics
Alternaria solani 2803
Colletotrichum capsici 2803
control
Colletotrichum capsici, Capsicum 3729
Fusarium oxysporum f.sp. *lycopersici*, tomatoes 1211
Phytophthora nicotianae var. *parasitica*, tomatoes 1211
Pythium debaryanum, tomatoes 1211
tomatoes, damping off 1211
***Streptomyces olivaceus*,** antifungal agents 4133
Streptomyces scabies
potatoes 369, 1172, 2117, 2618, 2619, 3637
radishes 2188
Streptomycin
activity
coconuts 3197
Fusarium oxysporum f.sp. *apii* 4790
rice 1021
control
Colletotrichum capsici, Capsicum 1751
Pseudomonas syringae pv. *tomato*, tomatoes 392
Xanthomonas campestris pv. *citri*, lime (citrus) 673
Xanthomonas campestris pv. *malvacearum*, cotton 1523
Xanthomonas campestris pv. *phaseoli, Vigna radiata* 5047
Xanthomonas campestris pv. *vesicatoria, Capsicum* 1752
fungicide tolerance, plant pathogens 3424
inhibition, *Pseudomonas pisi* 2141
laboratory tests, *Corynebacterium michiganense* pv. *michiganense* 3997
Streptomycin sulphate
control
Pseudomonas syringae pv. *tomato*, tomatoes 4446
tobacco, diseases 3220
Xanthomonas campestris pv. *citri*, oranges 1046
***Strychnos nux-vomica*, *Glomerella cingulata*,** India 1597
***Stylosanthes*,** diseases, Colombia 2521
***Stylosanthes capitata*, *Glomerella cingulata*,** control 697
Stylosanthes guianensis
Curvularia eragrostidis
environmental factors 4933
Queensland 4933
symptoms 4933
Subterranean clover mottle virus, clover 2531
Subterranean clover red leaf virus
peas, characteristics 1855
purification 605
serological diagnosis 605
Suchlore-4, control, *Erysiphe polygoni*, peas 1697
Suchlore-6, control, *Erysiphe polygoni*, peas 1697
Sudan
faba beans, diseases 4532
onions, *Pyrenochaeta terrestris* 513
sugarcane
Curvularia 4424
Fusarium 4424
soil fungi 4424
wheat, *Puccinia graminis* 4246
Sudan grass
Gigaspora reticulata, mycorrhizas, taxonomy 2305
Glomus fasciculatum, mycorrhizas, light 58
Setosphaeria turcica, deterioration 4921
Sugar beet (see Beet)
Sugarcane
Ceratocystis paradoxa, control 1196, 3218, 3967
Cochliobolus lunatus, India 105
Curvularia, Sudan 4424
diseases
Argentina 4099
books 4983
China 3970
control 3958, 3970
Jamaica 3960
Mauritius 1192
Queensland 2131
Reunion 3405
reviews 2129, 4983
South Africa 1193
Taiwan 2625
Uruguay 3958
varietal reactions 2625
Drechslera sacchari
helminthosporoside 743
mycotoxins 4177
physiology 1629
Drechslera stenospila, Papua New Guinea 740
Fusarium, Sudan 4424
Gibberella fujikuroi var. *subglutinans*, hosts 2054
Glomerella tucumanensis
characteristics 1418
phenols 376
resistance 3968
Uttar Pradesh 3969
varietal reactions 745
grassy shoot
Tamil Nadu 3961
yield losses 3961
Leptosphaeria taiwanensis, varietal reactions 745
maize streak virus
Egypt 1194
varietal reactions 1194
mineral deficiencies, chlorosis 2135
Peronosclerospora sacchari
control 3965
environmental factors 1198, 1199
Papua New Guinea 3965
spore germination 2133
sporulation 2133
Taiwan 1198, 1199
varietal reactions 1198
Pseudomonas rubrilineans, Papua New Guinea 740
Puccinia, control 2625
Puccinia kuehnii
inoculation 3964
Philippines 3964
varietal reactions 3964
Puccinia melanocephala
control 3971
cultures 373
epidemiology 3219
Hawaii 1628
infection 4760
Mississippi 3219
Queensland 3971
survival 3219
varietal reactions 374
Pythium
isolation 4761
Queensland 1190
ratoon stunting
Cuba 747
diagnosis 747
flowering 748
interactions 3959
Queensland 2131
testing 3974
varietal reactions 3974
yield losses 2134
root rots, Queensland 1190
soil fungi, Sudan 4424
Stagonospora sacchari
India 744
Papua New Guinea 740
striate mosaic, Queensland 1191
Sugarcane *contd.*
sugarcane chlorotic streak virus
Taiwan 2132
yield losses 2132
sugarcane Fiji disease virus
Malaysia 5
Queensland 3962
spread 3962
sugarcane mosaic virus
crop loss 98
Egypt 1194
interactions 3959
strains 1195
tissue culture 741
varietal reactions 1194
Ustilago scitaminea
Argentina 1627
Brazil 1626
control 3641
cultures 1197
detection 375
genetics 3963
Hawaii 3641
inoculation 742
Philippines 3966
races 3640
resistance 742, 3963
reviews 3641
Suriname 4984
testing 746
varietal reactions 1626, 1627
Xanthomonas albilineans
biochemistry 3973
testing 3972
Sugarcane chlorotic streak virus, sugarcane 1192, 2132, 2625
Sugarcane Fiji disease virus, sugarcane 5, 2131, 3962
Sugarcane mosaic virus
maize 1483
sorghum 96, 98, 178, 182, 1195, 1492, 1493, 3851, 4649
soyabeans 97
sugarcane 98, 741, 1193, 1194, 1195, 2756, 3405, 3958, 3959, 4099
***Suillus bovinus*,** pines, mycorrhizas 2817
***Suillus granulatus*,** pines, mycorrhizas 2815
Sulpen-80, control, *Erysiphe polygoni, Vigna radiata* 2226
Sulphur
activity
apples 4356
Rhizoctonia solani, beet 3306
control
Alternaria ricini, Ricinus communis 2578
Erysiphe polygoni
beet 4496
peas 1696
Vigna radiata 2226
Oidium, Tamarindus indica 1233
Podosphaera leucotricha, apples 1103, 4359
Pseudomonas cichorii, Pelargonium 3543
Pseudomonas syringae pv. *tomato*, tomatoes 4446
Puccinia penniseti, Pennisetum americanum 3852
Thanjavur wilt, coconuts 3196
Uncinula necator, grapevines 1592, 1593, 1594
laboratory tests, *Aspergillus alternata* 4069
Plasmodiophora brassicae, swedes 1686
Sulphur dioxide
activity
peas 4517
soyabeans 4546
tomatoes 4990
control
Botrytis cinerea, grapevines 3163
cherries, storage decay 3130
damage
Cicer arietinum 2229
Euphorbia pulcherrima 2516
grasses 3082
Lolium perenne 2526, 2527
ornamentals 2001
Petunia 1535
pines 775, 1675, 3669
soyabeans 2214, 4813
spinach 782, 783, 1681

Sulphur dioxide *contd.*
damage *contd.*
spruce 775, 777
trees 3658
inhibition
plant pathogens 4866
Xanthomonas campestris pv. *phaseoli*, beans (*Phaseolus*) 1280
Sulphur 900 FW, control, *Erysiphe umbelliferarum*, parsley 1601
Sulphur 900 MFW, control, *Erysiphe umbelliferarum*, parsley 1601
Sulphuric acid, control, *Xanthomonas campestris* pv. *hyacinthi*, hyacinths 3057
Sumatra, cloves, bacteria 4737
Sumisclex
control
Botrytis cinerea
grapevines 309, 312, 2573
strawberries 3137
Fusarium, potatoes 2613
Sunflowers
Agrobacterium tumefaciens, tumours 861, 1339, 1340, 3751
Alternaria helianthi
breeding 3611
control 3181
estimation 4403
infection 3935
inoculation 4403
resistance 3611
sowing dates 3181
sporulation 3935
survival 3935
varietal reactions 3181
Alternaria zinniae
Hungary 1609
varietal reactions 1609
Botrytis cinerea
histopathology 4742
oxalic acid 2069
diseases, control 2938
fungi
Finland 2582
infection 2582
head rot
aetiology 3184
control 3184
Macrophomina phaseolina
control 1148, 3183
Egypt 1148
varietal reactions 1148
Plasmopara halstedii
control 4399
detection 3185
enzyme activity 4405
inoculation 4399
Italy 3185
races 3185
testing 2580
USSR 2579
varietal reactions 2579
Puccinia helianthi
control 1149, 3182
Egypt 1149
epidemiology 3180
varietal reactions 1149, 2581
yield losses 3179
Sclerotinia sclerotiorum
disease models 2584
environmental factors 1609, 2583
enzyme activity 4964
epidemiology 2584
forecasting 2583, 4400
France 2583, 2584, 4400
Hungary 1609
hyperparasitism 3610
inoculation 4402
oxalic acid 2069, 4964
sclerotia 4404
varietal reactions 1608
virulence 4964
Sclerotium rolfsii
pathogenicity 3186
symptoms 3186
Septoria helianthi, Turkey 4401
Verticillium albo-atrum, survival 2611
Sunnhemp rosette virus, antiviral agents 1849
Suriname
coconuts
hartrot 4965, 4966
Suriname *contd.*
coconuts *contd.*
Phytomonas staheli 4965, 4966
sugarcane, *Ustilago scitaminea* 4984
tomatoes, *Pseudomonas solanacearum* 4993
Swedes
Erwinia carotovora ssp. *carotovora*
control 955
USSR 955
Erysiphe cruciferarum, pathology 1255
Erysiphe polygoni
UK 2686
varietal reactions 2686
Oidium caricae, hosts 3146
Plasmodiophora brassicae
biochemistry 3679
environmental factors 1686
histochemistry 440
pathology 1255
USSR 1686
varietal reactions 439
turnip crinkle virus, identification 969
viruses, UK 5008
Sweet corn (see Maize)
Sweet peas, pea enation mosaic virus, transmission 942
Sweet potato feathery mottle virus, sweet potatoes 524
Sweet potatoes
Cercospora batatae, yield losses 1762
diseases, resistance 1764
Elsinoë batatas, control 837
Fusarium, China 2754
Fusarium oxysporum
Brazil 525
symptoms 525
Fusarium solani f.sp. *batatas*
China 2753
control 2753
Pseudomonas solanacearum
inoculation 1763
isolation 1763
storage disorders, Bangladesh 4088
sweet potato feathery mottle virus, detection 524
viruses
control 2248
indexing 3400
Nigeria 3400
testing 3400
witches broom
Taiwan 523
transmission 523
Swietenia, timber, decay 429
Switzerland
barley, diseases 4257
cereals, *Puccinia* 4244
Dactylis glomerata, diseases 1552
fruit, diseases 2540
fruit trees, diseases 2539
grapevines
Botrytis cinerea 319
diseases 291, 2568
Pseudopeziza tracheiphila 336, 3925
plant diseases, legislation 698
potatoes
diseases 4409
Phytophthora infestans 2606
small fruits, diseases 2539
strawberries, *Phytophthora fragariae* 715
wheat, diseases 620
Sydowia polyspora
larch 1219
pines 422, 4485
Symphytum, *Pseudomonas solanacearum*, China 2538
Symposia (see Conferences)
Syncephalastrum racemosum, lemons 1044
Synchytrium endobioticum
CMI descriptions 2896
potatoes 363, 364, 1176, 2108, 3630, 3951, 3952, 4755, 4976
soil 4755
virulence 3630
Synchytrium lagenariae
CMI descriptions 2896
Lagenaria siceraria 4795
Luffa acutangula 4626
Synchytrium macrosporum, CMI descriptions 2896
Synchytrium phaseoli, CMI descriptions 2896
Synchytrium phaseoli-radiati, CMI descriptions 2896
Synchytrium psophocarpi
CMI descriptions 2896
Psophocarpus tetragonolobus 2227
Synchytrium sesamicola, sesame 4741
Synchytrium trichosanthidis, *Trichosanthes dioica* 4795
Syria
cereals, viruses 2380
faba beans, *Botrytis fabae* 4534
Syringa vulgaris (see Lilac)
Tafasan, seed treatments, Indian mustard 3313
Tagetes erecta, *Spiroplasma citri*, Arizona 102
Tagetes patula
mycorrhizas
nutrition 4158
phosphorus 4157
Taiwan
bananas
Fusarium oxysporum f.sp. *cubense* 4380
Phyllosticta musarum 4379
Cephaleuros virescens 2873
Chinese cabbages, turnip mosaic virus 1683
Chrysanthemum, *Septoria chrysanthemella* 4324
citrus
Botryodiplodia theobromae 4691
Diaporthe citri 4691
cowpeas, *Phytophthora vignae* 1302
Dahlia, *Dahlia* mosaic virus 1064
groundnuts, *Puccinia arachidis* 497
Ipomoea obscura, witches broom 1856
legislation, quarantine 882
Momordica charantia, *Fusarium oxysporum* f.sp. *momordicae* 3322
mustard, turnip mosaic virus 1683
pines, mycorrhizas 1812
plant diseases 956
plant protection 1925
rice
Pyricularia oryzae 4291, 4686
Rhizoctonia solani 4295
viruses 1926
Xanthomonas campestris pv. *oryzae* 3034
Schoenoplectus triqueter, diseases 4353
sorghum, diseases 4281
soyabeans
Phakopsora pachyrhizi 4541
sulphur dioxide 4813
Sphaerotheca fuliginea 4642
sugarcane
Peronosclerospora sacchari 1198, 1199
sugarcane chlorotic streak virus 2132
sweet potatoes, witches broom 523
tobacco
Alternaria longipes 1637, 1638, 1639
cucumber mosaic virus 1635
diseases 1630
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 2146
Talaromyces flavus, control, *Verticillium dahliae*, eggplants 1756
Tamarillo mosaic virus, *Cyphomandra betacea* 1587
Tamarindus indica, *Oidium*, control 1233
Tamil Nadu, sugarcane, grassy shoot 3961
Tanzania
cowpeas, *Phytophthora* 2220
pigeon peas, diseases 2738
rice, *Pyricularia oryzae* 3522
shrubs, mycorrhizas 547
trees, mycorrhizas 547
Taphrina
mitosis 1396
ornamentals 4002
Taphrina aurea, poplars 4018
Taphrina deformans
mitosis 1396
peaches 4366
Taraxacum, viruses, UK 2179
Taraxacum officinale
dandelion latent virus
characterization 943
purification 943
tomato ringspot virus, infection 3554
Tasmania
plant diseases 959

Tasmania *contd.*
potatoes, beet western yellows virus 353
TBZ (see Thiabendazole)
TC-2216, activity, citrus, blight 1967
TCMTB, laboratory tests, plant pathogens 4841
Tea
Armillaria mellea
damage 3975
India 3975
bacteria
freezing 4762
Japan 4762
seasonal changes 4762
Cephaleuros virescens, Queensland 377
diseases
China 378
Sri Lanka 1200
Exobasidium vexans
control 749, 2626
India 2626
Gloeosporium theae-sinensis
Japan 3642
resistance 3642
Guignardia camelliae
China 378
varietal reactions 378
Lophodermium camelliicola, India 586
Myrothecium cameliae, taxonomy 3643
Poria hypolateritia
environmental factors 1201
India 1201
Tea phloem necrosis virus, tea 1200
Teak, *Botryodiplodia theobromae,* India 105
Techniques (see also Apparatus)
analysis
fumigants 1349
fungicide residues 2799
apparatus, forecasting, *Venturia inaequalis,* apples 2545
application
fungicides 234, 1189, 2562, 4875
pesticides 1346, 1796, 1839, 1840
assays
Botrytis cinerea, grapevines 304
lettuce mosaic virus, lettuce 3720
metalaxyl 1801
Phytophthora cinnamomi, soil 578
potato virus S, potatoes 352
potato virus X, potatoes 352
soyabeans, viruses 478
tobacco mosaic virus, tobacco 1631
tomato ringspot virus 4204
assessment
fungi, leaves, *Lolium* 4343
Phytophthora infestans, potatoes 4419
plant diseases 1398
breeding
beet, viruses 4031
melons, diseases 3682
rice, *Xanthomonas campestris* pv. *oryzae* 4299
wheat, *Leptosphaeria nodorum* 3489
characterization, viruses 3004
classification
bacteria 3752
Gremmeniella abietina, Coniferae 1235
cleaning, apparatus 1841
collection, spores 2422
control, *Cercospora kikuchii,* soyabeans 2721
counting
Laetisaria arvalis, soil 2867
spores 2343
Xanthomonas campestris pv. *oryzae* 1964
cultures
Ascochyta agropyrina 240
Cercospora zeae-maydis 2999
Corticium salmonicolor 976
Cronartium ribicola 1241
freeze drying 3791, 3792
Gaeumannomyces graminis 143
Gliocladium roseum 904
grapevines, bacterium 2788
Leptosphaeria maculans 5015
Melampsora larici-populina 411, 3273
mycorrhizas 56
Phialophora 143
Phytophthora 2845
Phytophthora infestans 2604
Phytophthora katsurae 4160, 4161
Techniques *contd.*
cultures *contd.*
Puccinia coronata 2434
Puccinia melanocephala, sugarcane 373
Pyrenophora dictyoides 240
Spiroplasma citri 102
Spongospora subterranea 736
Ustilago scitaminea 1197
Verticillium dahliae 1590
wood destroying fungi 2175
detection
alfalfa mosaic virus
clover 4859
lucerne 4859
Nicotiana glutinosa 4859
Alternaria solani, potatoes 356
American plum line pattern virus, *Prunus* 2040
apple chlorotic leaf spot virus, apples 3102
apple mosaic virus 3550
apple stem grooving virus, apples 3102
avocado sunblotch viroid, avocados 3585, 4942
bacteria 1341
seeds 2266
bacterial diseases 2779
barley stripe mosaic virus 2907
barley 3499
cereals 2378
barley yellow dwarf virus 114, 1427
cereals 1426
bean common mosaic virus 2907
bean pod mottle virus 4061
broad bean stain virus, faba beans 471, 4808
broad bean true mosaic virus, faba beans 4808
cacao swollen shoot virus 3474, 4867
carnation mottle virus 2004
carnations 2506
cereals, viruses 2380
citrus, viruses 3039
citrus tristeza virus 3864
cocksfoot streak virus, *Dactylis glomerata* 1548
Corynebacterium michiganense pv. *sepedonicum,* potatoes 1623, 2621, 3956
cucumber green mottle mosaic virus 2907
Cymbidium mosaic virus, *Cymbidium* 1068
decay
timber 3248
trees 3248, 4449
diseases, roots, orchards 4855
Erwinia amylovora, pome fruits 1095
Erwinia salicis, Salix 3276
fluorine, resistance, spruce 3302
fungi, mycorrhizas 2827
globe artichokes, viruses 1746
grapevine fanleaf virus, grapevines 292
grapevine leaf roll virus, grapevines 2565
groundnuts, viruses 3353
lettuce mosaic virus, lettuce 820, 5048
mycoplasmas, *Catharanthus roseus* 2509
Odontoglossum ringspot virus, *Cymbidium* 1068
Phoma exigua var. *foveata,* potatoes 1181, 3212
Phytophthora infestans, potatoes 356
plant viruses 681, 1551, 1842, 1843, 1845
Plasmopara halstedii, sunflowers 3185
potato leaf roll virus, potatoes 2082, 2087, 2089, 2595, 4414, 4753
potato spindle tuber viroid, potatoes 732, 1170, 1171, 2098
potato virus A 603
potato virus M, potatoes 3206
potato virus X 3614
potato virus Y 3614
aphids 2096
potatoes 2082, 2093, 4749
potatoes, viruses 2083, 3940, 4416
prune dwarf virus 3550
Prunus necrotic ringspot virus 3550
stone fruits 2039
Pseudomonas solanacearum, soil 4431
Techniques *contd.*
detection *contd.*
Pseudomonas syringae, cherries 4371
Puccinia recondita, wheat 997
Pythium zingiberum, ginger 2587
rape, seedborne fungi 2189
rice yellow mottle virus, rice 3008
Rubus yellow net virus, *Rubus* 1116
ryegrass mosaic virus, *Lolium* 3084
ryegrass seedborne virus, *Lolium* 3084
satsumas, viruses 668
soyabean mosaic virus 1284
soyabeans 4063
Spiroplasma, maize 2437
Spiroplasma citri 2520
squash mosaic virus 2907
sweet potato feathery mottle virus, sweet potatoes 524
Synchytrium endobioticum, soil 4755
timber, decay 2176, 2177
tobacco rattle virus
Narcissus 2924
potatoes 2924
tobacco ringspot virus, *Pelargonium hortorum* 1069
tobacco streak virus 2101
tomato ringspot virus, apples 1099
Vaccinium corymbosum, viruses 276
viruses 1526
relationships 1844
watermelon mosaic virus, melons 4045
Xanthomonas campestris pv. *phaseoli,* beans (*Phaseolus*) 4529
determination
dithiocarbamates, residues 3419
fungi, growth 1837
fungicide residues 2030, 2280
IAA, mycorrhizas 4137
potatoes, viruses 3615
triforine, fruit 1352
virulence, *Bremia lactucae* 2232
diagnosis
beet mosaic virus, beet 3675
boron, deficiencies, lucerne 3901
Botrytis allii, onions 4083
carnation mottle virus 3535
cucumber mosaic virus 941
Dahlia 683
Cymbidium mosaic virus, orchids 3073
diseases, potatoes 350
Erwinia carotovora ssp. *atroseptica,* potatoes 1184
Glomus, mycorrhizas 3767
manganese, deficiencies, soyabeans 5039
mineral deficiencies, clover 1554, 1555
molybdenum, deficiencies, soyabeans 5039
Odontoglossum ringspot virus, orchids 3073
plant mycoplasmas 948
plant viruses 3457
potato virus Y, potatoes 355, 1169, 2091
potatoes, viruses 2084, 3458
Pseudocercosporella herpotrichoides, wheat 3830
Pseudomonas syringae pv. *tomato,* tomatoes 3246, 3995
Puccinia graminis
cereals 4227
grasses 4227
rice ragged stunt virus, rice 192
RNA, plant viruses 4630
soyabeans, diseases 3702
tobacco rattle virus, potatoes 1163
tomatoes, bacteria 4447
Verticillium dahliae, potatoes 2610
differentiation
bean yellow mosaic virus 5031
Capsicum, viruses 3390
cucumber mosaic virus 3464
Fusarium 4629
mycoplasmas 4215
Peronosclerospora sorghi, sorghum 3000
Phytophthora 82
Phytophthora capsici 3789
plant viruses 2915, 2916
Sclerotinia 2893
watermelon mosaic virus, strains 4792

Techniques *contd.*
electron microscopy, *Puccinia graminis* 131
elimination
cherries, viruses 4370
citrus, viruses 4303
Euphorbia pulcherrima, viruses 1531
garlic, viruses 5052
globe artichokes, viruses 4085
grapevine leaf roll virus, grapevines 2566
grapevines, viruses 2563, 4385
hops, viruses 3167
Lilium, viruses 4327
potatoes, viruses 2594, 4412
viruses 823
enzyme activity, fungi, seeds 5009
estimation
air pollution, damage, *Lolium perenne* 2526, 2527
Alternaria alternata, mangoes 4955
Alternaria helianthi, sunflowers 4403
Alternaria solani, tomatoes 4442
crop loss 92
enzymes, *Sphaerostilbe repens* 4165
genes, maize 647
Gibberella zeae, maize 1013
Glomerella cingulata, coffee 1982
hydrogen fluoride, damage 106
mycorrhizas 2819
lettuce 2824
ozone
damage
beans (*Phaseolus*) 2713, 3699
potatoes 3217
phytoalexins, potatoes 864
potato virus X, potatoes 4754
Pseudomonas tolaasii, mushrooms 821
Puccinia graminis, wheat 4874
Pyricularia oryzae, rice 2467
Rhizoctonia cerealis, wheat 145
Setosphaeria turcica, maize 1012
spore dispersal 3649
spore germination 2310
spores 1461
Stagonospora arenaria, Dactylis glomerata 3087
sugarcane, yield losses 2134
sulphur dioxide, damage, trees 3658
Uromyces
beans (*Phaseolus*) 2704
cowpeas 2704
yield losses
cereals 979, 4870
pecans, *Cladosporium caryigenum* 4999
wheat 1447, 4237
evaluation
beans (*Phaseolus*)
ozone, damage 1706
root rot 3333
Bremia lactucae, lettuce 3381
chemicals, control, *Erwinia amylovora* 1566
fungicides 31, 494
Pyricularia oryzae 2469
oxidants, damage, potatoes 3216
experiments, mycorrhizas 4138
extraction
toxins, peas 4512
urd bean leaf crinkle virus, *Vigna mungo* 2740
fixation, plant viruses 933
fluorescence microscopy, *Cochliobolus sativus* 4186
forecasting
Alternaria solani, tomatoes 3244
crops, diseases 2345
Diaporthe citri, citrus 3865
Erwinia amylovora 2271
Erysiphe graminis, cereals 953
Gibberella saubinetii
cereals 4871
wheat 4878
Hemileia vastatrix, coffee 1980
Phacidium infestans, pines 953
Phytophthora infestans
potatoes 735, 967, 2606, 2607, 2608, 3948
tomatoes 2149
plant diseases 967, 2372
Plasmodiophora brassicae, radishes 5016

Techniques *contd.*
forecasting *contd.*
Podosphaera leucotricha, apples 1101
potato virus Y, potatoes 2094
Pseudocercosporella herpotrichoides, wheat 2359
Puccinia striiformis, wheat 1889
Pyricularia oryzae, rice 1031, 2463, 2464, 3025
Sclerotinia sclerotiorum
rape 4789
sunflowers 2583, 4400
Sclerotinia squamosa, onions 4565
Venturia inaequalis, apples 708, 1101, 2551
wheat, diseases 2391
wheat yellow dwarf virus, wheat 4655
Xanthomonas campestris pv. *oryzae,* rice 2481
identification
Ceratocystis ulmi, strains 4776, 4777
cereals, diseases 986
Cochliobolus sativus 921
Corynebacterium 4120
Erwinia 2785
Phoma exigua var. *foveata,* potatoes 367
Phytophthora 928
soil fungi 577
Sphaerotheca fuliginea 4197
tobacco mosaic virus 2910
tobacco ringspot virus, *Arctium lappa* 3806
viruses, flower bulbs 3057
yams, viruses 4091
indexing
coconuts, lethal disease 4745
sweet potatoes, viruses 3400
induced mutations, *Cercospora beticola* 2182
induction, *Agrobacterium tumefaciens,* tumours 3751
inoculation
Aegilops ventricosa, Pseudocercosporella herpotrichoides 3495
apples, *Venturia inaequalis* 3559
asparagus, *Fusarium oxysporum* 4566
barley
barley yellow mosaic virus 2981
Erysiphe graminis 637
Puccinia striiformis 1900
beans (*Phaseolus*)
Colletotrichum lindemuthianum 3693
Thanatephorus cucumeris 4525
Uromyces appendiculatus 4526
Brassica, Plasmodiophora brassicae 442
Calluna vulgaris, mycorrhizas 3440
Capsicum, Xanthomonas campestris pv. *vesicatoria* 2246
carrots, *Erysiphe heraclei* 3315
Cicer arietinum
Fusarium 1737
Macrophomina phaseolina 4819
citrus
Glomus etunicatum 3436
Glomus mosseae 3436
cotton
Fusarium 3878
Verticillium 3878
cowpeas, *Agrobacterium tumefaciens* 1303
Dactylis glomerata, Puccinia 4345
Eleusine coracana
Magnaporthe grisea 2457
Pyricularia oryzae 2457
Erica, mycorrhizas 3440
flax
Fusarium avenaceum 4914
Phoma exigua var. *linicola* 4914
lucerne, *Colletotrichum trifolii* 255
maize, *Setosphaeria turcica* 3509
melons, *Erwinia tracheiphila* 450
peas, cucumber mosaic virus 4510
pecans, *Cercospora effusa* 4779
pines, *Cronartium ribicola* 1242
Piper nigrum, Fusarium solani f.sp. *piperis* 8
potatoes
Erwinia carotovora ssp. *atroseptica* 4979

Techniques *contd.*
inoculation *contd.*
potatoes *contd.*
Phoma eupyrena 4421
Phoma exigua 4421
potato virus Y 2601
viruses 935
rice
Magnaporthe salvinii 3028
Pyricularia oryzae 1940
sorghum
maize dwarf mosaic virus 3850
sugarcane mosaic virus 96
soyabeans
Gigaspora gigantea 559
Sclerotinia sclerotiorum 5034
sugarcane
Glomerella tucumanensis 745
Leptosphaeria taiwanensis 745
Puccinia kuehnii 3964
Ustilago scitaminea 746
sunflowers
Alternaria helianthi 4403
Plasmopara halstedii 4399
Sclerotinia sclerotiorum 4402
sweet potatoes, *Pseudomonas solanacearum* 1763
tobacco
Alternaria longipes 1637
potato virus X 934
tomatoes
Fusarium 1644
Pseudomonas syringae pv. *tomato* 759
trees, mycorrhizas 4606
tulips, *Fusarium oxysporum* f.sp. *tulipae* 3080
viroids 2905
viruses 2905
wheat
Gaeumannomyces graminis 3491
Mycosphaerella graminicola 4252
Pseudocercosporella herpotrichoides 144, 3495
isolation
Agrobacterium 3747
Beauveria bassiana, soil 1826
Cochliobolus sativus, soil 1823
cucumber mosaic virus, RNA 2923
Cylindrocladium, forest trees 4010
Erwinia stewartii, maize 3511
fungi, *Vigna mungo* 1308
Fusarium
forest trees 4010
soil 3783, 4184
Glomerella cingulata, Anemone 3061
Laetisaria arvalis, soil 2867
Macrophomina phaseolina, soil 66
Metarhizium, soil 1826
Phytophthora, Abies alba 1236
Phytophthora fragariae, strawberries 3140
Phytophthora infestans, soil 4202
Phytophthora megasperma f.sp. *glycinea,* soil 582
Phytophthora megasperma var. *sojae,* soil 1748
Pseudocercosporella herpotrichoides 2977
Pseudomonas 3747
Pseudomonas cichorii, lettuce 2235
Pseudomonas solanacearum
soil 4431
sweet potatoes 1763
Pythium
soil 4761
sugarcane 4761
Sclerotinia minor, soil 4550
soil fungi 577
Synchytrium endobioticum 363
tobacco necrosis virus *Chenopodium* necrosis str., water 1851
Trichoderma, soil 580, 4184
Verticillium dahliae, grapevines 4389
Xanthomonas campestris pv. *campestris*
cabbages 4125
soil 4125
maintenance
Helminthosporium solani 3955
plant pathogens 4835
Podosphaera leucotricha 2034
measurement
fungi, plants 2346

Techniques *contd.*
measurement *contd.*
mycorrhizas 4153
plant diseases, leaves 3453
microscopy
plant diseases 3452
Uredinales 4201
models
Botrytis cinerea, grapevines 2574
cereals, diseases 1870, 2377
citrus tristeza virus, citrus 4301
Cronartium fusiforme
oak 3249
pines 3249
crop loss, sorghum 1494
crops, diseases 2768
diseases 2953
Erysiphe graminis, barley 2427, 4667
fungicide residues, potatoes 1615, 1616
fungicide tolerance 26, 1795
Hemileia vastatrix, coffee 1978, 1980
Phytophthora infestans, potatoes 3210
plant diseases 852, 2260, 2956, 3411, 3479
Plasmopara viticola, grapevines 2569
Puccinia striiformis, wheat 3827
Rhizoctonia solani, rice 1955
Sclerotinia sclerotiorum, sunflowers 2584
Sclerotium cepivorum, onions 1318
soil, infection 2322
soyabean mosaic virus, soyabeans 5032
sulphur dioxide, plant pathogens 4866
tobacco mosaic virus, tobacco 4426
translocation, barley, *Puccinia hordei* 3837
Uredinales, cereals 978
Verticillium dahliae, cotton 1989
mycoplasmas, books 2926
photography, fungi 4853
preservation
bacteria 3696
cacao swollen shoot virus 3474
fungi 2901
plant collections 590
production
apothecia, *Sclerotinia trifoliorum* 4347
mycorrhizas 1814
oospores, *Pythium butleri* 2344
pines, disease resistance 3293
potatoes, seed tubers 4748
protoplasts, *Gibberella fujikuroi* 1382
protection
beans (*Phaseolus*), *Colletotrichum lindemuthianum* 5030
tobacco, *Pseudomonas solanacearum* 4594
tomatoes, *Pseudomonas solanacearum* 4594
purification
Arabis mosaic virus 1534
barley yellow dwarf virus 4205
beet mild yellowing virus 3463
beet mosaic virus, beet 4784
beet western yellows virus 4205
brome mosaic virus 1550
enzymes 2980
brome streak mosaic virus 4335
cacao swollen shoot virus 4867
cucumber mosaic virus 940
groundnut mottle virus 4547
papaya ringspot virus 4382
potato spindle tuber viroid, tomatoes 3459
rice tungro virus 4682
subterranean clover red leaf virus 605, 1855
viruses 3202
yam mosaic virus 3401
sampling
Cronartium flaccidum, pines 1673
spores 53, 1399, 2413
scanning electron microscopy
fungi 4854
Puccinia coronata, oats 2988
seed testing
bacteria 15
barley
Pyrenophora graminea 161, 2428, 2429, 2431
Pyrenophora teres 161, 2428
cowpeas 3710

Techniques *contd.*
seed testing *contd.*
cowpeas *contd.*
cowpea aphid-borne mosaic virus 2217
cowpea mosaic virus 499
lupins, *Phomopsis leptostromiformis* 259
maize, *Gibberella fujikuroi* 2444
peas 454
rice
Alternaria padwickii 1507
Pyricularia oryzae 3024
soyabeans
Diaporthe phaseolorum var. *sojae* 481
soyabean mosaic virus 477
seed treatments
Lablab purpureus 2743
peas 453
wheat 3821
selection
mycorrhizas 4150
potatoes, potato leaf roll virus 2596
separation, pines, seeds 4478
serological diagnosis, tulip breaking virus 688
serology, *Glomus,* mycorrhizas 3767
simulation
Diaporthe citri, citrus 3865
Phytophthora infestans, potatoes 3948
wheat, diseases 2391
spore germination 930
sporulation
Mycosphaerella arachidis 4067
Peronospora tabacina 381
spraying
coffee 4310, 4311
Hemileia vastatrix 3873
fungicides 869, 974
raspberries 278
tobacco 3220
staining
fungi 88, 5025
Phytophthora drechsleri 1817
soil fungi 88
Ustilago scitaminea, sugarcane 375
storage
Cercospora zeae-maydis 2999
Crinipellis perniciosa 8
Diplocarpon rosae 2016
fungi 1838
Puccinia striiformis 1
Seiridium cardinale 2170
tobacco ringspot virus 3806
Vaccinium corymbosum 3131
viruses 3793
testing
antagonists, *Venturia inaequalis* 3110
apples
Podosphaera leucotricha 4714
Venturia inaequalis 3558, 3559
bananas, *Mycosphaerella musicola* 1128
barley
barley stripe mosaic virus 4258, 4259
Cochliobolus sativus 2386
Erysiphe graminis 4266
Puccinia striiformis 156, 4261
Pyrenophora graminea 1474
beans (*Phaseolus*)
bacterial diseases 2781
Thanatephorus cucumeris 4525
bulbs, viruses 3532
Capsicum, Phytophthora capsici 4570, 4571
cereals
Gaeumannomyces graminis 2868
Leptosphaeria nodorum 980
cherries, *Blumeriella jaapii* 3575
Chrysanthemum, Fusarium oxysporum f.sp. *chrysanthemi* 3537
Cicer arietinum
Botrytis cinerea 3715
Sclerotium rolfsii 3719
citrus, *Xanthomonas campestris* pv. *citri* 3867
Cladobotryum varium 3482
coffee, *Hemileia vastatrix* 1047, 3053
faba beans, *Botrytis fabae* 3700, 4534
Festuca arundinacea, Puccinia coronata 244

Techniques *contd.*
testing *contd.*
fungicides
pollen 4354
potatoes 2615, 4410
grapevines, viruses 4385
groundnuts
Phoma microspora 3363
Puccinia arachidis 3374
lettuce
Bremia lactucae 2233, 2234, 4079
Sclerotinia sclerotiorum 1310
Lolium multiflorum, snow mould 3085
lucerne
Corynebacterium flaccumfaciens pv. *insidiosum* 252
Verticillium albo-atrum 252
lupins, bacterial diseases 2781
maize
Erwinia stewartii 1490
Gibberella zeae 2998
peas
Ascochyta 4050
Fusarium oxysporum f.sp. *pisi* 4803
Phoma medicaginis var. *pinodella* 452, 1272
Pennisetum americanum, Sclerospora graminicola 3002, 3003
Phaseolus, bacterial diseases 2781
pines
air pollution 4027
Cronartium fusiforme 2664
Diplodia pinea 5004
sulphur dioxide, damage 775
Plasmodiophora brassicae 441
poplars, *Melampsora medusae* 2168, 3274
potato spindle tuber viroid 3625
potatoes
bacterial diseases 1187
Erwinia carotovora ssp. *atroseptica* 2121, 3638, 4979
Fusarium 1178
Phoma exigua var. *foveata* 2616
Phytophthora infestans 3629
Polyscytalum pustulans 3634
potato virus M 3942
potato virus X 3941
Pseudomonas solanacearum 2122
Streptomyces scabies 3637
Synchytrium endobioticum 2108, 3951
viruses 4750
rice
Magnaporthe salvinii 3028
Pyricularia oryzae 4293
Rhizoctonia solani 1956
rye, *Fusarium nivale* 2436
seeds 2900
sorghum
Colletotrichum graminicola 181
maize dwarf mosaic virus 2447
soyabeans
Fusarium oxysporum 1712
Phytophthora megasperma var. *sojae* 483
Sclerotinia sclerotiorum 5034
spinach
Fusarium oxysporum f.sp. *spinaciae* 4033
Peronospora farinosa 781
Spiroplasma, coconuts 2077
spraying equipment 2276
spruce, sulphur dioxide, damage 775
sugarcane
ratoon stunting 3974
Xanthomonas albilineans 3972
sunflowers, *Plasmopara halstedii* 2580
sweet potatoes, viruses 3400
tobacco
Erysiphe cichoracearum 4768
Phytophthora nicotianae var. *nicotianae* 3229
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 385, 1645
triticale, *Puccinia recondita* 1441
watermelons, *Colletotrichum lagenarium* 2697
wheat
Cochliobolus sativus 2386
Erysiphe graminis 140
Gibberella zeae 2415

Techniques *contd.*
testing *contd.*
wheat *contd.*
Leptosphaeria nodorum 4665
Puccinia 2394
Puccinia graminis 2964
Puccinia recondita 993, 2400, 2402, 2405
wood destroying fungi 3304
tissue culture
garlic 823
globe artichokes, viruses 3727
grapevines, viruses 1134
insects, plant viruses 3454
plant viruses 2903
potatoes, viruses 354, 3939
rice 653
transferring
genes, *Agrobacterium tumefaciens* 2268
plasmids 2486, 3748
transmission, viruses 2350
trapping
aphids 595
spores 929, 931, 4817
Tecto, control, avocados, storage decay 3586
Tectona grandis (see Teak)
***Telfairia* mosaic virus,** *Telfairia occidentalis* 3683
Telfairia occidentalis
Telfairia mosaic virus
Nigeria 3683
resistance 3683
Tennessee
clover, viruses 4927
mycorrhizas, mined sites 4603
Tephrosia bidwilli, *Cochliobolus carbonum* 962
Tephrosia purpurea, *Alternaria alternata,* India 1413
***Tephrosia* symptomless virus,** CMI/AAB descriptions 89
Terraclor, seed treatments, soyabeans 2209
Terracoat, control, clover, diseases 2533
Terrazole, control, *Phytophthora palmivora,* aranda 4701
Tetrachlorophthalide, control, *Pyricularia oryzae,* rice 3015
Tetracycline
activity
Paulownia witches broom 5000
tomato yellow leaf curl virus, tomatoes 1208
control, apples, proliferation 2543
tolerance, western X disease 1107
Tetragonia expansa, cucumber mosaic virus, hosts 3888
Tettigonella, transmission, *Phyllosticta,* cloves 4395
Texas
barley, *Puccinia hordei* 155
groundnuts, *Rhizoctonia solani* 3708
sorghum, *Peronosclerospora sorghi* 3000
spinach, *Peronospora farinosa* 781
weeds, *Gigaspora* 2296
Thailand
Chinese cabbages, *Peronospora parasitica* 3314
Coix lachryma-jobi, Ustilago coicis 3515
grasses, *Peronosclerospora sorghi* 4220
maize, *Peronosclerospora sorghi* 2995
plant pathology 1782
rice, rice gall dwarf virus 188
sorghum, diseases 2449
soyabeans
blackgram mottle virus 1692
soyabean crinkle leaf 3703
Vigna mungo, blackgram mottle virus 1692
Vigna radiata
blackgram mottle virus 1692
mung bean yellow mosaic virus 5044
Thanatephorus cucumeris
beans (*Phaseolus*) 1274, 4525
Cicer arietinum 505
heterothallism 568
laboratory tests, fungicides 4688
rice 1495, 1960, 4688, 4906
sorghum 1495
soyabeans 1495
sporulation 2849, 2850
Thelephora terrestris
oak, mycorrhizas 4141
pines, mycorrhizas 2291, 2815, 4139
spruce, mycorrhizas 548
Themeda villosa, *Peronosclerospora sorghi,* Thailand 4220
Theobroma
Phytophthora palmivora
phytoalexins 611
resistance 611
Theobroma cacao (see Cocoa)
Therrya piceae, spruce 2666
Thiabendazole
activity
Fusarium oxysporum f.sp. *dianthi* 4322
plants 2794
Rhizoctonia solani 2867
control
Aspergillus flavus, apples 3910
avocados, storage decay 3586
Ceratocystis ulmi, elms 3264
clover, diseases 2532, 2533
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278, 1279
Colocasia antiquorum, storage decay 4087
Fusarium, potatoes 2613
Magnaporthe salvinii, rice 1950
melons, postharvest decay 790
mushrooms, diseases 4558
onions, storage decay 2748
Pezicula, apples 269, 270
Phoma exigua var. *foveata,* potatoes 2081, 2116, 3636
Polyscytalum pustulans, potatoes 2615
potatoes
diseases 2102
storage decay 3944
Pseudocercosporella herpotrichoides, wheat 633
Sclerotium cepivorum, onions 3726
Verticillium albo-atrum, hops 3607
fungicide tolerance
Botryodiplodia theobromae 1584
Diaporthe citri 1584
Glomerella cingulata 1584
Penicillium italicum 4306
Sclerotinia fuckeliana 1794
seed treatments
Brassica 5012
maize 1912
wheat 2969
Thielaviopsis basicola
cotton 212
eggplants 3737
groundnuts 5042
holly 4020
raspberries 1118
tobacco 2629, 4425, 4763
Thielaviopsis basicola* f.sp. *gossypii, cotton 3881
Thiocarbamate, residues, crops 874
Thiogreen 80W, control, *Peronospora tabacina,* tobacco 3648
Thiophamine, control, *Polyscytalum pustulans,* potatoes 2615
Thiophanate
control
Cercospora beticola, beet 436
clover, diseases 2533
cucumbers, diseases 4046
Macrophomina phaseolina, sunflowers 1148
Thiophanate-methyl
activity, *Rhizoctonia solani* 2867
control
Alternaria carthami, safflower 4739
Alternaria helianthi, sunflowers 3181
apricots, diseases 1112
Botryodiplodia, rubber 739
Botrytis cinerea
grapevines 315
lupins 1090
Colletotrichum truncatum, soyabeans 4812
Deuterophoma tracheiphila, citrus 3043
microorganisms, wounds 4013
Myrothecium roridum, tomatoes 390
Pezicula, apples 270
Piper nigrum, black berry 1145
Thiophanate-methyl *contd.*
control *contd.*
Plasmodiophora brassicae, cabbages 439
Polyscytalum pustulans, potatoes 2615
Pseudocercosporella herpotrichoides, wheat 633
strawberries, diseases 3136
Venturia inaequalis, apples 3108
fungicide tolerance
Botryodiplodia theobromae 1584
Botrytis cinerea 321, 2151
Diaporthe citri 1584
Glomerella cingulata 1584
residues
analysis 2799
apples 1097
seed treatments
citrus 3863
Coix lachryma-jobi 2456
marrows 4504
wheat 2978
soil treatments 4185
Thiophene, activity, fungi 2287
Thiourea, activity, potato virus X, tobacco 3797
Thiovit S, control, *Erysiphe umbelliferarum,* parsley 1601
Thiram
activity
Trichoderma harzianum 581
Xanthomonas campestris pv. *malvacearum* 2787
control
Alternaria longipes, tobacco 1639
Aspergillus niger, groundnuts 3365
Capsicum, diseases 3394
Glomerella cingulata, cassava 5063
Helminthosporium allii, garlic 3387
Macrophomina phaseolina, groundnuts 3365
onions, diseases 4084
Ophiostoma kubanicum, oak 405
Phoma exigua, potatoes 368, 1180
potatoes, diseases 610
rubber, diseases 1189
Sclerotinia narcissicola, Narcissus 1067
Sclerotium rolfsii, groundnuts 495
Venturia inaequalis, apples 709
wheat, root rots 989
fungicide tolerance, plant pathogens 873
laboratory tests
Fusarium oxysporum 4084
Pyrenophora dictyoides 240
residues, crops 874, 3419
seed treatments
barley 1905
cauliflowers 4041
citrus 3863
Coix lachryma-jobi 2456
cotton 212, 1521
groundnuts 1721, 3706, 4072
Lablab purpureus 2743
marrows 4504
onions 4561
peas 454, 4052
rice 1948
sorghum 1919, 1920
soyabeans 480, 490
swedes 955
turnips 955
Vigna radiata 503
wheat 126, 2978
soil treatments 1268
Thiride
control, *Sclerotium rolfsii,* groundnuts 495
seed treatments, Indian mustard 3313
Thiuram (see Thiram)
Thrips tabaci, transmission, tobacco streak virus 1402
Thuja plicata, *Phytophthora,* Oregon 414
Thujopsis dolabrata
Caeoma deformans
environmental factors 2668
Japan 2668
symptoms 2668
Thyronectria austro-americana, *Gleditsia triacanthos* 3251
Thysanolaena maxima, *Xanthomonas campestris* pv. *vasculorum,* hosts 1192

Tilia
air pollution, damage 971
Uncinula oleosa var. *zenghii*, taxonomy 2340
Tilia cordata
Cenococcum geophilum
mycorrhizas
electron microscopy 886
survival 887
Tilletia
Glyceria striata 2315
wheat 139
Tilletia barclayana, rice 1952
Tilletia caries
ultrastructure 2898
wheat 616, 625, 990, 2381, 2406, 3485
Tilletia controversa
CMI descriptions 2895
wheat 624, 625, 626, 2969, 2970
Tilletia foetida, wheat 625, 990, 2406
Tilletia holci, CMI descriptions 2895
Tilletia indica
CMI descriptions 2895
ultrastructure 2899
wheat 1891, 3486, 3828
Tilletia sabaudiae, *Poa nemoralis* 4852
Tilt 250 EC, control, *Erysiphe graminis*, wheat 1443
Timber
Coniophora puteana, decay 430
Daedalea ambigua, India 393
decay
detection 3248
electrical resistance 2176, 2177
decay fungi
inhibitors 1249
testing 3304
Poria placenta, enzymes 431
Pycnoporellus fibrillosus, India 393
wood destroying fungi, control 3305
Tiradin 75, seed treatments, maize 3155
TMTD (see Thiram)
Tobacco
Agrobacterium rhizogenes, tissue culture 3986
Agrobacterium tumefaciens
histopathology 2630
hormones 4435
micropropagation 2630
regeneration 2140
Alternaria longipes
conidia 1638
control 1639
inoculation 1637
pathogenicity 1637, 1638
Taiwan 1637, 1638, 1639
bacteria, induced resistance 4769
bean distortion dwarf virus, hosts 3691
Botrytis cinerea, varietal reactions 2629
cucumber mosaic virus
breeding 1635
detection 1843
distribution 1843
hosts 3888
RNA 754
symptoms 380
Taiwan 1635
diseases
breeding 3976, 3980
control 4425, 4763
induced resistance 2939
Mauritius 4102
Taiwan 1630
Zimbabwe 3220
eggplant virus, infection 833
Erysiphe cichoracearum
breeding 3981
inhibitors 4767, 4989
interactions 4767
resistance 1202
testing 4768
varietal reactions 1204, 4767, 4768
laboratory tests, cercosporin 3228
ozone, varietal reactions 2142
Peronospora tabacina
breeding 4429
Canada 3648
Central America 1636
Connecticut 4430
control 755, 1636, 2801, 3648
fungicide tolerance 2139
interactions 4767
leaves, waxes 4988

Tobacco *contd.*
Peronospora tabacina contd.
spore dispersal 3649, 4430
sporulation 381
USA 3648
varietal reactions 4429
Phytophthora nicotianae var. *nicotianae*
control 750, 3230
environmental factors 3231, 3982, 3983
genetics 3229, 3651
lipids 756
Queensland 3982, 3983
sterols 756
tissue culture 3229
varietal reactions 750, 756, 3231, 3651, 3982, 3983, 3984
potato virus U, infection 3208
potato virus X
antiviral agents 3618
cell inclusions 751
inoculation 934
thiourea 3797
potato virus Y
cell inclusions 751
Chile 379, 3226
control 750
epidemiology 3226
indicator plants 3614
proteins 3977
varietal reactions 750
yield losses 379
Pseudomonas, interactions 644
Pseudomonas pisi, hypersensitivity 2141
Pseudomonas solanacearum
agglutinins 2622
biological control 3755
boron 1205
classification 3985
detection 4431
Korea Republic 3985
protection 4594
spread 4433
survival 4432
Pseudomonas syringae pv. *lachrymans*, phytoalexins 1206
Pseudomonas syringae pv. *pisi*, hypersensitivity 382, 1641, 1642, 3232, 3233
Pseudomonas syringae pv. *tabaci*
growth 383
Japan 4434
strains 4434
Pythium, control 2801
Rhizoctonia solani, herbicides 1640
rosette, electron microscopy 1203
Thielaviopsis basicola, varietal reactions 2629
tobacco bushy-top virus
hosts 3979
Malawi 3979
tobacco mosaic virus
actinomycin D 3645
antibiotics 4765
antifungal agents 3647
assays 1631
chloroplasts 2138
disease models 4426
elimination 592
enzymes 2627, 3644
ethylene 4985, 4986
formaldehyde 3221, 3222
genetics 3225
host parasite relationships 3221, 3222
hypersensitivity 1633, 3223, 4766
identification 2910
induced resistance 2136, 4426, 4635
infection 2633
inhibition 752, 3224
inhibitors 2137, 3978, 4632, 4858
interactions 4428
movement 1632
nucleoproteins 4764
osmotic pressure 2628
phytoalexins 3647
protoplasts 938, 1634, 1847, 3224, 3461, 4765
resistance 1202
RNA 4427
strains 2908
temperature 592
tobacco necrosis virus
ethylene 4985

Tobacco *contd.*
tobacco necrosis virus *contd.*
hypersensitivity 4987
tobacco ringspot virus, inhibitors 3978
tobacco vein mottling virus, proteins 3977
tomato black ring virus, RNA 3227
tomato mosaic virus, RNA 3646
tomato spotted wilt virus
Japan 753
symptoms 753
Xanthomonas campestris pv. *oryzae*, hypersensitivity 4770
Tobacco bushy-top virus
Amaranthus spinosus 3979
Capsicum annuum 3979
Datura stramonium 3979
eggplants 3979
Solanum nigrum 3979
tobacco 3979
Tobacco etch virus
CMI/AAB descriptions 89
relationships 1720
RNA 2912
Tobacco mosaic virus
antigens 594
beans (*Phaseolus*) 93, 797, 2710, 4055
Bougainvillea 6
Capsicum 519, 828, 1320, 2908, 2910, 3390, 3391, 3392, 3737
characteristics 3801
Chenopodium amaranticolor 4858
Crotalaria juncea 680
cucumbers 596
Datura stramonium 4858
eggplants 521, 2908, 2910
host parasite relationships 600, 601
hosts 599, 2633, 3801
inhibition, plant extracts 936
inhibitors 937
interactions 600, 601
Nicotiana glutinosa 2138, 3461, 4437, 4858
Nicotiana plumbaginifolia 3733
Nicotiana rustica 3460
Nicotiana sanderae 3461
Petunia 4333
Petunia hybrida 2013
potatoes 935, 4417
protein biochemistry 94
proteins 2909, 3799, 3800
resistance, reviews 597
RNA 602
spinach 2679
spread 600, 601
synthesis 3798
tobacco 592, 752, 938, 1202, 1630, 1631, 1632, 1633, 1634, 1847, 2136, 2137, 2138, 2627, 2628, 2908, 2910, 3221, 3222, 3223, 3224, 3225, 3461, 3644, 3645, 3647, 3978, 4426, 4427, 4428, 4632, 4635, 4764, 4765, 4766, 4985, 4986
tomatoes 757, 2632, 2633, 2910, 3235, 3456, 3652, 3653, 3987, 4437
Tobacco mosaic virus crucifer str., garlic 4559
Tobacco necrosis virus
beans (*Phaseolus*) 456
Chenopodium amaranticolor 4207
cowpeas 95, 4491
cucumbers 95, 596, 1259, 1691, 4491, 4791
hosts 2915
river water 4856
tobacco 4985, 4987
watercress 5059
Tobacco necrosis virus *Chenopodium* necrosis str., water 1851
Tobacco necrosis virus str. A, *Yucca elephantipes* 6
Tobacco rattle virus
Alstroemeria 1996
Freesia 3057
inoculation 2905
Narcissus 2924
Nicotiana 2919
peony 945
potatoes 935, 1163, 1165, 2924, 3207
RNA 945, 2919
rye 3476
strains 2919

Tobacco ringspot virus
apples 3103
Arctium lappa 3806
beans (*Phaseolus*) 5026
eggplants 521
Pelargonium hortorum 1069
potatoes 935
RNA 99
soyabeans 478
storage 3806
tobacco 3978
Vaccinium corymbosum 276
Tobacco ringspot virus Andean potato calico str., potatoes 1845
Tobacco streak virus
Ajuga reptans 3060
Alstroemeria 1996
hosts 1402
potatoes 2101
serological relationships 1846
transmission 1402
Tobacco vein mottling virus
DNA 4637
RNA 2355, 4637
tobacco 3977
Togo, cocoa, *Phytophthora* 612
Toisusu, Melampsora, Japan 3275
Tolclofos-methyl
activity 2286
control
Phoma exigua var. *foveata,* potatoes 3636
Rhizoctonia cerealis, wheat 3497
Rhizoctonia solani, potatoes 4756
soil treatments 1061
Tolyl mercuric acetate, seed treatments, wheat 1436
Tolyposporium ehrenburgii, Sorghum nervosum 2448
Tolyposporium penicillariae, Pennisetum americanum 2451, 4284
Tomato aspermy virus, tomatoes 3987
Tomato black ring virus
carrots 1257
Chenopodium quinoa 4633
inoculation 2905
potatoes 935, 3938
RNA 946
tobacco 3227
Tomato bunchy top viroid, characteristics 2902
Tomato bushy stunt virus
Capsicum 4771
Celosia argentea 2914
Chenopodium quinoa 2914
eggplants 4574
epidemiology 1848
Gomphrena globosa 4639
river water 4856
tomatoes 4771, 4991
water 1851
Tomato leaf curl virus
Centratherum anthelminticum 3988
Solanum seaforthianum 3988
tomatoes 3988
Tomato mosaic virus
tobacco 3646
tomatoes 3234
Tomato ringspot virus
apples 1099, 3554
assays 4204
fruit 260
grapevines 1135, 1136
Taraxacum officinale 3554
Vaccinium corymbosum 276
Tomato spotted wilt virus
groundnuts 2729, 3282, 3354
Hydrangea 3466
strains, defects 2921
tobacco 753
weeds 3466
Tomato spotted wilt virus groundnut ring mosaic strain
cowpeas 3356, 3357, 3358
groundnuts 3356, 3357, 3358, 3359
Tomato yellow leaf curl virus
Lycopersicon 1207, 1209
tomatoes 1207, 1208, 1209, 1793, 3235, 3737
Tomato yellow mosaic virus, tomatoes 3456
Tomatoes
activity, fungicides 2635

Tomatoes *contd.*
Agrobacterium tumefaciens, plant tumours 1340
Alternaria solani
control 610, 758, 1210, 3244
Cuba 4441
estimation 4442
forecasting 3244
interactions 4990
measurement, leaves 3453
races 4441
toxins 2366
varietal reactions 3655, 4442
Aspergillus niger, enzymes 3243
bacteria, diagnosis 4447
bacterial diseases
Austria 3998
symptoms 3998
blossom-end rot, control 4774
boron, toxicity, irrigation 3813
Botrytis cinerea
control 1646
environmental factors 1865
enzyme activity 3240, 3654
fungicide tolerance 2151
growth 1647
brown root rot
control 3236
Greece 3236
Calyptella campanula
soil moisture 2641
spread 2641
UK 2641

citrus exocortis viroid
cell ultrastructure 726
tissue cultures 607
Colletotrichum, pathogenicity 1643
Colletotrichum coccodes, enzyme activity 3654
Corynebacterium michiganense, bacteriocins 4773
Corynebacterium michiganense pv. *michiganense*
antibiotics, laboratory tests 3997
development 1650
pathogenicity 1215
cucumber mosaic virus
RNA 2143
satellites, RNA 4438
damping off, biological control 1211
Didymella lycopersici
breeding 2152
genetics 2152
Morocco 1649
supports 1649
survival 1649
diethylaminoethanol, damage 2368
diseases
breeding 3994
control 3234
genetics 3994
hydroponics 3234
Korea Republic 4030
Mauritius 4102
Reunion 3405
Senegal 1793
soilless culture 1862
Erwinia carotovora, characteristics 1343
Fulvia fulva
breeding 3470
Bulgaria 1648, 3241
control 2638, 3242
environmental factors 1865
France 2638, 3242
host parasite relationships 388
races 1648, 3241
resistance 3470
varietal reactions 1648
fungi, soil treatments 877
fungicide residues 874
fungicides, interactions 4990
Fusarium, pathogenicity 1644
Fusarium avenaceum, enzyme activity 4772
Fusarium oxysporum f.sp. *lycopersici*
biological control 386
Brazil 3991
control 2146, 3027, 3811
genetics 385, 3027
infection 3989
interactions 3990

Tomatoes *contd.*
Fusarium oxysporum f.sp. *lycopersici contd.*
Japan 3989
Morocco 2636
nitrogen 1212
Queensland 1645
races 1645, 3991
resistance 2145
symptoms 3989
Taiwan 2146
testing 385, 1645
ultrastructure 2148, 2943
varietal reactions 2634
Fusarium oxysporum f.sp. *radicis-lycopersici*
environmental factors 2147
Ontario 2147
Fusarium semitectum, control 3993
Fusarium solani, mutants 3238, 3239
Glomerella, pathogenicity 1643
Glomerella cingulata, enzyme activity 3654
Glomus fasciculatum
mycorrhizas
environmental factors 891
interactions 4149
Myrothecium roridum
control 390
India 390
nitric oxide, interactions 1216
nitrogen dioxide, interactions 1216
ozone
activity 4149, 4223
damage, genetics 4436
interactions 1216
pathogens
intensive production 2631
USSR 2631
pepper veinal mottle virus, Nigeria 969
Phytophthora infestans
control 610, 1213, 2149, 2156, 2796
forecasting 2149
host parasite relationships 2637
inhibitors 4439
races 1860
sterols 387, 2637
Phytophthora nicotianae var. *nicotianae*
control 1800
genetics 3992
varietal reactions 3992
Phytophthora nicotianae var. *parasitica*
fertilizers 4444
India 4444
physiology 4609
Pleospora infectoria, enzymes 2373
potato spindle tuber viroid
interactions 2368
purification 3459
Pseudomonas corrugata
California 2155
Florida 3656
Pseudomonas solanacearum
biological control 3755
control 2643
electron microscopy 2154
environmental factors 4993
histopathology 2154
hosts 1768
indicator plants 3985
interactions 1214
Panama 4100
protection 4594
resistance 4993
Suriname 4993
Pseudomonas syringae pv. *tomato*
Canada 3995
control 392, 3996, 4446
detection 2266
electron microscopy 2158
environmental factors 392
genetics 3247
Georgia 392, 4446
infection 2158
inoculation 759
Pennsylvania 3996
serological diagnosis 3246
serology 3995
spread 392
survival 963
susceptibility 2157
USA 3995
varietal reactions 3247

Tomatoes *contd.*
Pyrenochaeta lycopersici
California 389
control 389, 3245
symptoms 389
Rhizoctonia solani, pathogenicity 107
Rhizopus stolonifer
enzymes 2642, 4443
ethylene 4992
mutants 4443
Septoria lycopersici, control 610, 1210, 2796
Setosphaeria rostrata, control 2153
soil fungi
control 3784, 4185
Turkey 4185
Stemphylium solani
control 2156
cultures 2150
Stemphylium vesicarium
Italy 4440
symptoms 4440
storage decay
aetiology 2144
environmental factors 2144, 3237
storage disorders, Florida 2159
sulphur dioxide, interactions 4990
sunscald, environmental factors 2644
swelling, water relations 2645
tobacco mosaic virus
characterization 3653
control 757, 3456, 4437
genetics 2632
hosts 2633
identification 2910
India 3653
mutants 2633
strains 3653
symptoms 2633
tomato bushy stunt virus
inactivation 4991
Portugal 4771
tomato leaf curl virus, hosts 3988
tomato yellow leaf curl virus
aetiology 1208
breeding 1207, 1209
tomato yellow mosaic virus, control 3456
Verticillium albo-atrum
enzymes 2639, 2640
resistance 2145
strains 2535
ultrastructure 2943
varietal reactions 2634
Verticillium dahliae
breeding 391
genetics 391
Morocco 2636
toxins 2794
Verticillium nigrescens, New Zealand 2932
viroids, cytopathic effects 3794
viruses
DHT 3652
Hungary 3987
Jordan 3235
Nigeria 969
resistance 3674
transmission 3987
white leaf
New York 2143
symptoms 2143
Xanthomonas campestris pv. *vesicatoria*
control 2156
varietal reactions 4445
Topsin
control
Cercospora beticola, beet 436
clover, diseases 2533
cucumbers, diseases 4046
Macrophomina phaseolina, sunflowers 1148
Topsin M
control
Botrytis cinerea, grapevines 315
Colletotrichum truncatum, soyabeans 4812
Piper nigrum, black berry 1145
Topsin M 70
control
Botrytis cinerea, lupins 1090
strawberries, diseases 3136
Torula rhododendri, nomenclature 685
Toxins, characteristics 10
TPTH (see Fentin hydroxide)
Trachyspermum ammi, seedborne fungi, India 1596
Trachysphaera fructigena, bananas 720
Trametes hispida, spore germination 2649
Trametes trogii, poplars 762
Tranzschelia discolor
Anemone 2944
damsons 2944
plums 2552, 2944
Tranzschelia pruni-spinosae, plums 2552
Trees
air pollution, damage 4003, 4004, 4005, 4006, 4007, 4451
Armillaria, UK 4450
Armillaria mellea, Newfoundland 4775
Chondrostereum purpureum, host parasite relationships 4644
death
Hawaii, reviews 3999
North America, reviews 3999
decay
detection 3248, 4449
reviews 4994
diseases
books 760, 1651
Czechoslovakia 1652
Italy 4011
Oklahoma 3251
Victoria 760
fluorine, tolerance, industries 3657
fungi, decay 4008
Ganoderma lucidum, Argentina 1221
mycorrhizas
growth 2814
India 2293
Tanzania 547
nitrogen dioxide, damage 1654
ozone, damage 1653, 1654
Phellinus weirii, antagonists 4448
sulphur dioxide, damage 3658
wood destroying fungi, reviews 2648
Tremella mesenterica, classification 1395
Triadimefon
activity
Ampelomyces quisqualis 2284
faba beans 4596
grapevines 4959
Poa annua 1083
Puccinia recondita 4596
Ustilago avenae 4198
control
Botrytis cinerea, grapevines 313
Ceratocystis paradoxa, sugarcane 1196, 3218
cereals, diseases 2387
Cronartium fusiforme, pines 2660
cucumbers, diseases 3688
Erysiphe cichoracearum
cucumbers 787
sesame 3178
Erysiphe graminis
barley 1004
cereals 2285
wheat 1443
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium haraeanum, pears 3912
Gymnosporangium juniperi-virginianae, apples 2369
Hemileia vastatrix, coffee 1979
Leptosphaeria coniothyrium, raspberries 1120
Marssonina populi, poplars 4018
Melampsora amygdalinae, Salix triandra 1229
microorganisms, wounds 4013
Mycosphaerella graminicola, wheat 141
Nectria galligena, apples 3116
Oidium begoniae, Begonia 223
Phoma exigua var. *foveata,* potatoes 2116
Piper nigrum, black berry 1145
Podosphaera leucotricha, apples 702, 1104, 2033, 3560, 4359
Puccinia arachidis, groundnuts 4070, 5043
Puccinia porri, leeks 5054
Puccinia recondita, wheat 3826
Puccinia striiformis, wheat 138
Triadimefon *contd.*
control *contd.*
Sclerotium cepivorum, onions 3725
Sphaerotheca fuliginea, cucumbers 2696
Tilletia indica, wheat 1891
Uncinula necator, grapevines 298, 1592, 1593, 4959
Ustilago scitaminea, sugarcane 3641
metabolism 545
phytotoxicity, onions 3725
residues
coffee 3870
soil 4650
soil treatments 223, 3142
translocation, grapevines 2061
uptake
barley 1353
cucumbers 1353
Triadimenol
activity
apples 3117
fruit trees 3099
control
Coriolus versicolor, apples 3117
Erysiphe cichoracearum, sesame 3178
Erysiphe graminis, barley 3501
groundnuts, diseases 3284, 3366, 3367
microorganisms, wounds 4013
tobacco, diseases 3220
fungicide tolerance, *Erysiphe graminis* 4251
metabolism 545
phytotoxicity
barley 4879
groundnuts 4072
seed treatments
barley 151, 164, 1899, 1905, 4879
cereals 2387, 2955
maize 3155
wheat 990, 2978, 3492
uptake
barley 1353
cereals 2955
Trianthema portulacastrum
Fusarium fusarioides, Andhra Pradesh 1766
Pseudocochliobolus australiensis, Andhra Pradesh 1766
Triazbutyl
control, *Puccinia recondita,* wheat 614
field tests, wheat 614
Triazole, fungicide tolerance, *Erysiphe graminis* 4265
Trichlorophenol, seed treatments, cotton 1522
Trichoderma
antagonism
Corticium rolfsii 4618
plant pathogens 2716
Sclerotinia minor 4618
soil fungi 1389, 4617
Verticillium dahliae 1986
antibiotics 880
clover 4929
control
Corticium salmonicolor 2937
Fusarium oxysporum f.sp. *dianthi,* carnations 2006
Ganoderma 2937
Phomopsis sclerotioides, cucumbers 2197
Rigidoporus lignosus 2937
Sclerotium cepivorum, onions 5056
Thanatephorus cucumeris, rice 1960
rice 3032
rye 3843
seed treatments
faba beans 2715
soyabeans 2209
soil 580, 4184
sorghum 3512
soyabeans 3704
Trichoderma hamatum
control, *Pythium,* peas 4516
ecology 2746
hyperparasitism
Rhizoctonia solani 1829
Sclerotium rolfsii 1829
Pseudotsuga menziesii 3300
seed treatments, cotton 4315

Trichoderma harzianum
antagonism
plant pathogens 2862
soil fungi 1389
Verticillium dahliae 1986
control
Fusarium oxysporum f.sp. *dianthi*, carnations 4321
Heterobasidion annosum 1217
Iris, diseases 4920
Rhizoctonia solani 2209
beans (*Phaseolus*) 463
potatoes 4756
soil 4619
Sclerotium rolfsii, soil 4619
soil fungi 64
ecology 2746
hyperparasitism
Rhizoctonia solani 1829
Sclerotium rolfsii 1829
interactions 905
Rhizoctonia solani
Actinidia chinensis 1527
soil 2870
seed treatments
cotton 4315
soyabeans 2724
soil 581
soil treatments 4321
Trichoderma koningii, enzymes 906
Trichoderma pseudokoningii
control, *Rhizoctonia solani* 2209
enzymes 2854, 2859
India 2886
seed treatments, soyabeans 2724
Trichoderma viride
antagonism
Fusarium 2865
Fusarium oxysporum f.sp. *melonis* 3418
Gibberella zeae 27
plant pathogens 2862
soil fungi 3418
Venturia inaequalis 3110
Verticillium dahliae 1986
citrus 3042
control
Botrytis cinerea, grapevines 327, 725, 4732
Ceratocystis ulmi, elms 4014
Chondrostereum purpureum
pears 974, 4713
pome fruits 3097
stone fruits 3097
cucumbers, diseases 1265
Fusarium oxysporum f.sp. *lycopersici*, tomatoes 1211
Khuskia oryzae, maize 3155
Phoma exigua var. *linicola*, flax 4913
Phytophthora nicotianae var. *parasitica*, tomatoes 1211
Pythium debaryanum, tomatoes 1211
Pythium ultimum, peas 3418
Rhizoctonia solani
cotton 677
potatoes 4756
Sclerotium rolfsii, beans (*Phaseolus*) 3418
tomatoes, damping off 1211
Verticillium dahliae 880
enzymes 2859
induced mutations 3418
laboratory tests, pesticides 27
maize 173
physiology 4159
Pseudotsuga menziesii 3300
Rhizoctonia solani, *Actinidia chinensis* 1527
Trichodermin-4, control, cucumbers, diseases 1265
Tricholoma, antifungal agents, plant pathogens 881
Trichosanthes dioica, *Synchytrium trichosanthidis*, survival 4795
Trichothecium roseum
apples 3905
biology 2843
Lablab purpureus 819
melons 790
potatoes 2617
Tricyclazole
activity
Colletotrichum lagenarium 1263
Tricyclazole *contd.*
activity *contd.*
Pyricularia oryzae, rice 4902
control, *Pyricularia oryzae*, rice 1034, 3015, 4903
Tridax mosaic virus, *Tridax procumbens* 2251
Tridax procumbens, *Tridax* mosaic virus, India 2251
Tridemorph
activity
Alternaria, cabbages 1682
barley 3832
fungi 3421
maize 2994
control
barley, diseases 1001
Cercospora sesami, sesame 3178
Erysiphe graminis, barley 150, 151, 1471
Erysiphe polygoni, peas 4053
Oidium, *Tamarindus indica* 1233
Puccinia arachidis, groundnuts 494
Rigidoporus lignosus, rubber 2126
rubber, diseases 1189
Septoria, wheat 2392
laboratory tests
Capnodium citri 669
Setosphaeria rostrata 2153
phytotoxicity, sesame 727
Trifluralin, control, beans (*Phaseolus*), diseases 1701
Trifoliate orange (see *Poncirus trifoliata*)
Trifolium (see Clover)
Trifoltan, control, *Phytophthora palmivora*, *Piper nigrum* 3171
Triforine
activity, *Fusarium oxysporum* f.sp. *dianthi* 4322
control
Colletotrichum lindemuthianum, beans (*Phaseolus*) 1278
Erysiphe graminis, barley 984
Fulvia fulva, tomatoes 2638, 3242
Leptosphaeria coniothyrium, raspberries 1120
mushrooms, diseases 2236, 2237
Oidium begoniae, *Begonia* 223
Sphaerotheca fuliginea, cucumbers 447, 4505
Uncinula necator, grapevines 1592
Uromyces appendiculatus, beans (*Phaseolus*) 1277
determination, fruit 1352
seed treatments, barley 164
Trigonella polycerata, *Uromyces striatus*, India 4831
Trimanzone, control, *Capsicum*, diseases 3394
Trimiltox, control, *Koleroga noxius*, coffee 3877
Trimmatostroma bifarium, *Eucalyptus regnans* 4465
Trimmatostroma excentricum, *Eucalyptus* 2164
Trimorphamid, control, *Podosphaera leucotricha*, apples 1104
Trinidad, cucumbers, *Xanthomonas campestris* pv. *cucurbitae* 792
Trioza erytreae, transmission, citrus greening 664
Tripura, rubber, *Botryodiplodia theobromae* 2127
Triticale
diseases
control 1879
USSR 617
varietal reactions 617
Leptosphaeria nodorum, aggression 3487
Puccinia graminis
genetics 991
Mexico 991
Puccinia recondita, testing 1441
Triticum (see Wheat)
Triton CS-7, spreaders 652
Triton X100, surfactants 273
Triumfetta rhomboides, *Pseudocercospora triumfettigena*, India 4625
Trivax, seed treatments, barley 4879
Tropical crops, seed testing, reviews 3790
Truban, soil treatments 1075
Truncatella pitospora, Vitaceae 2510
Tsuga canadensis, injuries, responses 3285
Tsuga heterophylla
mycorrhizas
growth 2816
infection 2816
survival 1364
Phytophthora, Oregon 414
Tuber aestivum
Cistus, mycorrhizas 889
oak, mycorrhizas 4140
Tuber albidum
Cistus, mycorrhizas 889
oak, mycorrhizas 4140
Tuber brumale, *Cistus*, *mycorrhizas* 889
Tuber magnatum, oak, mycorrhizas 4140
Tuber melanospermum, *Cistus*, mycorrhizas 889
Tuber rufum, *Cistus*, mycorrhizas 889
Tulare apple mosaic virus, serological relationships 1846
Tulip breaking virus
Chenopodium 2011
Lilium 688
Lilium longiflorum 2011
tulips 688
Tulip chlorotic blotch virus, tulips 1058
Tulip top breaking virus, tulips 3057
Tulip virus X 1058
Tulips
Botrytis tulipae
control 1078
Iraq 1078
Fusarium oxysporum f.sp. *tulipae*
inoculation 3080
varietal reactions 3080
Rhizoctonia solani, survival 1059
tulip breaking virus, serological diagnosis 688
tulip chlorotic blotch virus
symptoms 1058
transmission 1058
Tunisia, barley, *Pyrenophora teres* 4267
Tur, seed treatments, wheat 999
Turkey
barley, *Pyrenophora teres* 4267
Capsicum, fungi 4568
cereals, brome mosaic virus 977
cotton
diseases 1986
Rhizoctonia solani 1051
Verticillium dahliae 1051
fungi 922
grapevines
Eutypa armeniacae 4388
Verticillium dahliae 1142
plant pathology, conferences 1773
strawberries, fungi 3138
sunflowers, *Septoria helianthi* 4401
tomatoes, soil fungi 4185
watermelons, *Fusarium* 1262
Turkmen SSR, fungi, books 2877
Turmeric, diseases, India 4393
Turnip crinkle virus
swedes 969
turnips 969
Turnip mosaic virus
Brassica 5008
cabbages 2185
Chenopodium amaranticolor 4858
Chinese cabbages 1683
Impatiens balsamina 684
mustard 1683
rhubarb 517
safflower 2067
Stellaria media 3310
Turnip yellow mosaic virus, Chinese cabbages 4497, 4641
Turnips
Erwinia carotovora ssp. *carotovora*
control 955
USSR 955
Plasmodiophora brassicae, ultrastructure 2680
Spiroplasma citri, transmission 3190
turnip crinkle virus, identification 969
Xanthomonas campestris pv. *campestris* 4126
Tween 80, laboratory tests, bacteria, tea 4762
Typhula
cereals 2387
control 2286
wheat 615

Typhula incarnata
cereals 2382, 3817
competitive ability 1825
Festuca pratensis 2524
Lolium multiflorum 3085
Lolium perenne 2524
rye 3843
Typhula ishikariensis 2524
biotypes 588
cereals 2382
competitive ability 1825
Japan 588
Lolium multiflorum 3085
Lolium perenne 4336
Phleum pratense 4336
taxonomy 588
UK
Acer pseudoplatanus
Cryptostroma corticale 4453
fungi 397, 3256
Alstroemeria, viruses 1996
Anthoxanthum odoratum, Anthoxanthum latent blanching virus 1549
asparagus, viruses 2179
barley
barley yellow mosaic virus 1459
diseases 1899
Erysiphe graminis 3479, 3501
beet, viruses 2676
blackberries, viruses 1114
Brassica
Alternaria 2685, 5011
diseases 1682
Leptosphaeria maculans 2685, 5015
viruses 5008
carnations, viruses 1995
carrots
cavity spot 4044
tomato black ring virus 1257
celery, celery mosaic virus 5018
cereals
barley yellow dwarf virus 4868
diseases 1423
Chrysanthemum morifolium, viroids 1995
crop loss, estimation 109
crops
diseases 1326
reports 4097
Dactylis glomerata, cocksfoot streak virus 1548
faba beans, *Ascochyta fabae* 3701
forest trees, diseases 2646
fungicides, aerial spraying 2275, 4840
garlic, viruses 5052
grasses, brome mosaic virus 2528
hops
diseases 3169
hop mosaic virus 3605
viruses 2064
horticultural crops, diseases 1419
Hydrangea, viruses 1997
leeks, *Puccinia porri* 5054
lettuce
Bremia lactucae 3721
viruses 2179
Lolium
diseases 1079
fungi 4342
Lolium perenne, diseases 2525
lucerne
diseases 4931
Fusarium 4931
Narcissus, viruses 1419
onions
Cladosporium allii-cepae 5055
Sclerotinia squamosa 5053
plant diseases 1, 4093
forecasting 2372
Platanus
Gnomonia platani 4467
salt, damage 4467
potatoes
diseases 1612
seed tubers 4411
Erwinia 2118, 2119
potato leaf roll virus 4970
potato virus S 3622
rape, *Leptosphaeria maculans* 5010
raspberries
raspberry bushy dwarf virus 3578
viruses 1114
rhubarb, viruses 517
UK *contd.*
river water, plant viruses 4856
roses
Phragmidium mucronatum 2518
viruses 1997
Rubus, viruses 1114
soil, *Fusarium* 4183
swedes, *Erysiphe polygoni* 2686
Taraxacum, viruses 2179
tomatoes, *Calyptella campanula* 2641
trees, *Armillaria* 4450
water
tobacco necrosis virus *Chenopodium* necrosis str. 1851
tomato bushy stunt virus 1851
watercress, viruses 5059
weeds, *Alternaria* 5011
wheat
Agropyron mosaic virus 1433
barley yellow dwarf virus 4237
Cladosporium 4237
diseases 1878
Fusarium nivale 2979
Ukrainian SSR
Albuginaceae 3447
Cercospora 77
cherries, *Blumeriella jaapii* 3574
wheat
empty spikes 985
root rots 988
***Ullucus* C virus,** *Ullucus tuberosus* 2180
***Ullucus* mosaic virus,** *Ullucus tuberosus* 2180
Ullucus tuberosus
viruses
eradication 2180
symptoms 2180
Ulmus (see Elms)
Ulocladium, rye 3843
Ulocladium chartarum, cucumbers 2373
Ultraviolet radiation
activity, *Xanthomonas campestris* pv. *malvacearum* 3882
beans (*Phaseolus*), tobacco mosaic virus 797
phytoalexins 2287
viruses, Chinese cabbages 4036
Uncinula necator, grapevines 291, 297, 298, 313, 1592, 1593, 1594, 2568, 3924, 4959
Uncinula necator* var. *ampelopsidis, nomenclature 2340
Uncinula oleosa* var. *zenghii, *Tilia* 2340
Uncinuliella
China 1662
taxonomy 1662
Uncinuliella australiana, *Lagerstroemia* 1394, 1662
United Arab Emirates, date palms, diseases 1155
Upper Volta, sorghum, diseases 2449
Urd bean leaf crinkle virus
Vigna mungo 2739, 2740
Vigna radiata 1729
Urd bean mosaic virus, *Vigna mungo* 3456
Urea
activity, maize, microflora 2993
control
cotton, diseases 1051
Venturia inaequalis, apples 3108, 3111
Uredinales
aeciospores 587
Austria 2363
cereals 978, 1429, 2953
Cupressaceae 2667
German Democratic Republic 73
Gramineae 1080
Japan 72
Mexico, books 1391, 1392
microscopy 4201
taxonomy 2336
urediospores 4105
wheat 1880
Uredo, yams 2250
Uredo cupressicola, Cupressaceae 2667
Uredo derridicola, *Derris elliptica* 71
Uredo spinulosa, yams 2250
Urocystis occulta, rye 2435
Uromyces, Greece 4219
Uromyces acori
Acorus calamus 344
Eudarluca caricis, hyperparasitism 344
Uromyces alysicarpi, *Alysicarpus monilifer* 4831
Uromyces appendiculatus
beans (*Phaseolus*) 464, 1277, 2704, 3334, 3335, 4054, 4201, 4526
spore germination 4170
staining 5025
Verticillium lecanii, biological control 464
Uromyces ciceris-arietini, *Cicer arietinum* 818
Uromyces dactylidis, *Dactylis glomerata* 1552
Uromyces dianthi, carnations 2007, 2507
Uromyces geranii, *Geranium* 2875
Uromyces rumicis, *Emex australis* 839
Uromyces striatus
lucerne 3899, 4348
Trigonella polycerata 4831
Uromyces transversalis, *Gladiolus* 1065
Uromyces trifolii-repentis, spore germination 3441
Uromyces viciae-fabae, faba beans 1282, 2207, 4201, 4808
Uromyces vignae
cowpeas 2704, 2732
staining 5025
Uruguay
potatoes, *Pseudomonas solanacearum* 3215
sugarcane, diseases 3958
vegetables, diseases 2936
wheat, diseases 2962
USA
Abies concolor, mycorrhizas 2292
antibiotics, industries 3762
apples
Podosphaera leucotricha 3112
Venturia inaequalis 3906
beans (*Phaseolus*), bean common mosaic virus 4520
beet, *Pythium deliense* 434
Calathea, Alternaria alternata 225
chestnuts, diseases 3659
citrus, *Xanthomonas campestris* pv. *citri* 3526
Cruciferae, mycorrhizas 4148
Eichhornia crassipes, Aquathanatephorus pendulus 528
Fusarium crookwellense, hosts 1831
larch, *Lachnellula willkommii* 3667
lucerne
alfalfa mosaic virus 3090
Fusarium oxysporum f.sp. *medicaginis* 2028
pea streak virus 3090
maize
Diplodia maydis 4885
maize rayado fino virus 1480
Phoma americana 2389
Stenocarpella macrospora 4885
pecans, *Aspergillus* 4998
plant pathogens, reviews 4111
potatoes
potato virus S Andean strain 4971
viruses 4968
Pseudotsuga menziesii, mycorrhizas 2292
quarantine, plant pathogens 884
radishes, *Streptomyces scabies* 2188
rice, *Pyricularia oryzae* 4293
roses, witches' broom 3544
sorghum
Hymenula cerealis 183
Peronosclerospora sorghi 182
soyabeans
Diaporthe phaseolorum var. *sojae* 481
Phialophora gregata 3690
Spiroplasma citri
geographical distribution 3189
hosts 3189
tobacco, *Peronospora tabacina* 3648
tomatoes, *Pseudomonas syringae* pv. *tomato* 3995
Vigna angularis, Phialophora gregata 3690
wheat
Gaeumannomyces graminis 142
Phoma americana 2389
Puccinia graminis 1881, 3483
Puccinia striiformis 1889
USSR
Albugo 75
apples, *Venturia* 1094

USSR *contd.*
Aster, Septoria 2505
Betula pubescens
Fomes fomentarius 3258
Phellinus igniarius 3258
Polyporus betulinus 3258
buckwheat, bacterial diseases 4645
cabbages, *Plasmodiophora brassicae* 4498
Callistephus, Septoria 2505
cereals
damping off 2949
Ustilaginales 2383
cotton, *Verticillium dahliae* 1054
crops, diseases 952, 954, 957, 958
cucumbers, *Myrothecium verrucaria* 449
fruit trees, diseases 1092
pears
Erwinia amylovora 3567
Venturia 1094
Venturia pirina 4716
peas, *Aphanomyces euteiches* 1271
pines, *Lophodermium pinastri* 1670
plant diseases, forecasting 953
plums, *Tranzschelia* 2552
poplars, *Melampsora populnea* 104
potatoes
Erwinia 955
Phoma exigua 1180
Phytophthora infestans 1175
rice, soil fungi 3521
soil, *Pythium vanterpoolii* 1000
soyabeans
bacterial diseases 2728
Pseudomonas 2727
spruce, *Chrysomyxa ledi* 104
sunflowers, *Plasmopara halstedii* 2579
swedes
Erwinia 955
Plasmodiophora brassicae 1686
tomatoes, pathogens 2631
triticale, diseases 617
turnips, *Erwinia* 955
wheat
Cochliobolus sativus 1446
Erysiphe graminis 999
Puccinia recondita 104, 996, 1440
root rots 2961, 4238
Ustilaginales
cereals 981, 2383
Hungary 4193
Ustilaginoidea virens
physiology 573, 4180
rice 2477
Ustilago avenae
activity, fungicides 4198
fungicides, electron microscopy 1397
oats 2432
Ustilago coicis
Coix lachryma-jobi 2454, 2455, 2456, 3515
spore germination 2455
Ustilago esculenta, *Zizania latifolia* 526, 2249
Ustilago hordei, CMI descriptions 2895
Ustilago maydis
fungicide tolerance 3761
fungicides, activity 3421
maize 169, 2440, 2441, 2880, 4276, 4674, 4675
mitochondria 4610
mutants 4132
physiology 4132, 4610
Ustilago nuda
barley 2381, 2982, 3838, 4879
cereals 2387
triticale 617
wheat 125, 616, 1442, 2381, 4876
Ustilago scitaminea
cultures 1197
sugarcane 375, 742, 746, 1192, 1193, 1197, 1626, 1627, 2625, 2756, 3405, 3640, 3641, 3736, 3958, 3960, 3963, 3966, 4099, 4984
Ustilago violacea
Caryophyllaceae 972
classification 1395
CMI descriptions 2895
genetics 1833, 1834
pigments 2848
Saponaria officinalis 913

Uttar Pradesh
air spora 2878
Uttar Pradesh *contd.*
maize, *Cochliobolus lunatus* 1915
soil, *Fusarium* 4181
sugarcane, *Glomerella tucumanensis* 3969
Uzbek SSR, lucerne, dwarf 4708
Vaccinium (see also Cranberries)
fungicide residues 874
Monilinia, biology 3133
tomato ringspot virus, epidemiology 260
Vaccinium angustifolium
mycorrhizas, laboratory tests 3777
Pezizella ericae, mycorrhizas, laboratory tests 3777
Vaccinium ashei, *Elaphomyces persoonii,* mycorrhizas, Florida 2308
Vaccinium corymbosum
Botryosphaeria corticis, New Jersey 4940
chlorosis, Arkansas 2556
mycorrhizas
laboratory tests 3777
North Carolina 896
Pezizella ericae
mycorrhizas
fertilizers 1372
laboratory tests 3777
Phomopsis vaccinii
North Carolina 714, 3132
symptoms 714
varietal reactions 3132
storage decay
control 4372
environmental factors 3131, 3577
viruses, Oregon 276
Vaccinium fuscatum, *Elaphomyces persoonii,* mycorrhizas, Florida 2308
Valsa, fruit trees 1092
Valsa ceratosperma, apples 2037, 2038
Valsa cincta
laboratory tests, fungicides 1347
peaches 1110, 2553, 4937
stone fruits 1576
Valsa kunzei, spruce 3671
Valsa leucostoma
cherries 4937
peaches 1110, 4937
Valsa sordida, poplars 2658, 3251, 4018
Vangard
control
Ceratocystis paradoxa, sugarcane 3967
Erysiphales, greenhouse crops 3473
Gymnosporangium globosum, Crataegus 2369
Gymnosporangium juniperi-virginianae, apples 2369
Ustilago scitaminea, sugarcane 3641
Vapam
control
Sclerotium rolfsii, Piper betle 3933
wood destroying fungi 3305
soil treatments 3236, 3245, 3704
Vapor Gard
control
Erysiphe graminis, barley 4228
Mycosphaerella graminicola, wheat 4228
Vegetable oils, control, apples, soft scald 2550
Vegetables
air spora, India 2765
bacterial diseases
breeding 1678
Hungary 1678
diseases
books 2670
Kenya 3734
UK 4832
Uruguay 2936
Victoria 2929
fungi, biology 2927
Veitchia merrillii, lethal yellowing, transmission 4408
Velvet tobacco mottle virus, *Nicotiana clevelandii* 3805
Venezuela
Capsicum, pepper mild mosaic virus 520
papayas, papaya ringspot virus 4382
potatoes
potato virus X 4415
potato virus Y 4415
sorghum
maize dwarf mosaic virus 179
Peronosclerospora sorghi 182
Venturia chlorospora, *Salix* 2646
Venturia inaequalis
apples 264, 266, 702, 705, 706, 707, 708, 709, 961, 1094, 1101, 2032, 2371, 2539, 2544, 2545, 2551, 3107, 3108, 3109, 3110, 3111, 3557, 3558, 3559, 3906, 4357, 4358, 4713
fungicides, evaluation 31
genetics 1102
laboratory tests, fungicides 2795
Malus 1563
Venturia pirina
fungicides, evaluation 31
pears 702, 1094, 2539, 3566, 4716
Venturia saliciperda, Canada 2885
Verbena
Alternaria alternata, seed 4334
Phoma exigua, seed 4334
seedborne fungi, India 4334
Vernonia divergens, *Oidium vernoniae,* India 236
Verrucispora smilacis, taxonomy 2326
Verticicladiella
pines 4022, 4025, 4482
Pseudotsuga menziesii 4022
Verticicladiella abietina
pines 4022
Pseudotsuga menziesii 4022
Verticicladiella procera, pines 4025, 4477
Verticicladiella truncata, pines 4025
Verticicladiella wageneri
pines 4022
Pseudotsuga menziesii 4022
Verticillium
activity, soil fungistasis 2864
barley 1872
Cercis chinensis 1091
cotton 3878
eggplants 3784
fruit trees 1091
lucerne 1
potatoes 350, 3784
rhizosphere, pines 44
strawberries 1122, 3138
tomatoes 3784, 3994
toxins 4105
wheat 1872
Verticillium albo-atrum
Aesculus hippocastanum 2646
carbohydrates 4614
Catalpa 1664
cotton 1520
enzymes 572
hops 3607
hosts 968, 2611
laboratory tests 4176
fungicides 875
lucerne 252, 254, 693, 695, 968, 1087, 1088, 2026, 2534, 2535, 4931
Onobrychis viciifolia 695
potatoes 1617, 2611, 3937
soil 2611
strains 2337
strawberries 280, 1115
tomatoes 2145, 2535, 2634, 2639, 2640, 2943
trees 4011
variation 2337
Verticillium dahliae
Acer 2160
Aucumba japonica 4319
avocados 3594
biological control 880
Capsicum 2794
carbohydrates 4614
cocoa 8
cotton 214, 676, 954, 1051, 1053, 1054, 1986, 1989, 1990, 3531, 4696
crops 907
cucumbers 4046
Datura stramonium 1827
eggplants 1755, 1756, 2247, 2794, 3737, 5062
enzymes 572
fungi, antagonism 2862
globe artichokes 2242
grapevines 1142, 3159, 4389
Laurus nobilis 3058
olives 1590
Peperomia obtusifolia 232
potatoes 731, 2610, 4967
raspberries 1115
Rubus 1115

Verticillium dahliae *contd.*
sclerotia, germination 3781
soil 1390, 1827
spore germination 2310
strawberries 1115
Talaromyces flavus, biological control 1756
tomatoes 391, 2636, 2794
Verticillium fungicola
mushrooms 1315, 2236, 2744, 4558
Pleurotus ostreatus 509
Verticillium fungicola* var. *aleophilum,
mushrooms 1313, 1314
Verticillium fungicola* var. *fungicola,
mushrooms 1313, 1314
Verticillium lateritium, cotton 214
Verticillium lecanii
barley 3833
control
Sphaerotheca fuliginea, cucumbers 2196
Uromyces appendiculatus, beans (*Phaseolus*) 464
Uromyces dianthi, carnations 2007
epidemiology, *Fagus,* diseases 2646
rape 2189
Verticillium nigrescens
China 2361
cotton 214
tomatoes 2932
Verticillium psalliotae, mushrooms 1313
Viburnum, Phoma, Italy 3058
Viburnum opulus, Eutypa armeniacae, Australia 4863
Vicia, Aphanomyces euteiches, variations 3689
Vicia ervilia
Ascochyta lentis, varietal reactions 2741
Fusarium oxysporum f.sp. *lentis,* varietal reactions 2741
Vicia faba (see Faba beans)
Victoria
Agrostis, diseases 3892
Cicer arietinum, diseases 3713
crops, diseases 2930
Eucalyptus
fungi 2164
Phytophthora cinnamomi 769
forage crops, diseases 2930
fruit, diseases 2929
grasses, diseases 2930
Protea cynaroides, Pseudomonas syringae 3075
trees, diseases 760
vegetables, diseases 2929
wheat, barley yellow dwarf virus 1432
Vigil, control, *Erysiphe graminis,* wheat 1443
Vigna angularis
cucumber mosaic virus, hosts 3888
Phialophora gregata
Japan 3690
pathogenicity 3690
USA 3690
varietal reactions 3690
Vigna mungo
air spora, India 1733
blackgram mottle virus, Thailand 1692
fungi, seed 1308
mung bean yellow mosaic virus, breeding 3378
urd bean leaf crinkle virus
abnormalities 2739
infection 2740
urd bean mosaic virus, control 3456
viruses, physiology 4800
Xanthomonas campestris pv. *phaseoli,* resistance 2228
Vigna radiata
Alternaria alternata, toxins 1309
Aspergillus
environmental factors 1738
storage decay 1738
bean common mosaic virus
fertilizers 4075
Rhizobium 4075
blackgram mottle virus, Thailand 1692
diseases, Malaysia 1304
Erysiphe polygoni, control 2226
Fusarium oxysporum, toxins 1734
mung bean yellow mosaic virus
breeding 3378
control 3711

Vigna radiata *contd.*
mung bean yellow mosaic virus *contd.*
properties 5044
Thailand 5044
transmission 5044
varietal reactions 1730
vectors 3711
rooting 861
seedborne fungi, control 503
urd bean leaf crinkle virus
control 1729
transmission 1729
viruses, physiology 4800
Xanthomonas campestris pv. *phaseoli,* control 5047
Vigna unguiculata (see Cowpeas)
Vinclozolin
activity, *Trichoderma harzianum* 581
control
apricots, diseases 1112
Botrytis allii, onions 5057
Botrytis cinerea
grapevines 305, 306, 311, 312, 313, 323, 725, 2062, 2573, 3161, 3163
lettuce 506
lupins 1090
roses 1076
tomatoes 1646
Monilinia fructicola, peaches 1109
Monilinia laxa, stone fruits 4938
Pleiochaeta setosa, lupins 1090
Sclerotinia fuckeliana, grapevines 3602
Sclerotinia minor, groundnuts 3373
Sclerotinia sclerotiorum
Actinidia chinensis 2561
rape 4789
Sclerotium cepivorum, onions 3385
strawberries, diseases 281
fungicide tolerance
Botrytis cinerea 2151, 2199, 2946, 4731
Monilinia fructicola 2042
Monilinia laxa 4938
Sclerotinia fuckeliana 1794
residues, soil 2280
Vine (see Grapevines)
Vinicur, fungicide tolerance, *Pseudoperonospora cubensis* 2699
Viola cornuta, Spiroplasma citri, Arizona 102
***Viola* mottle virus,** CMI/AAB descriptions 89
Virazole
activity, turnip yellow mosaic virus 4641
control, turnip yellow mosaic virus, Chinese cabbages 4497
Virginia
groundnuts, *Sclerotinia minor* 4550
pines
air pollution 4477
diseases 4477
Sciadopitys verticillata, Phytophthora cinnamomi 4488
Virginiamycin, control, potatoes, bacterial diseases 2120
Viroids
characteristics 2902
crops 4752
host parasite relationships, reviews 2349
inoculation 2905
potatoes 4752
Viruses
assays 1841
books 90, 591, 2347
control, reviews 2352
crop loss 92
DNA 598
ecology, reviews 2352
enzymes, reviews 13
fungi 1408
inhibitors 4858
inoculation 2905
mushrooms 1408
replication, RNA 4631
resistance, reviews 597, 3741
RNA, reviews 13, 2348
storage 3793
tissue culture, reviews 2903
transmission, nematodes 91
Vitaceae
Pestalotiopsis quadricilliata, nomenclature 2510

Vitaceae *contd.*
Pestalotiopsis uvicola, nomenclature 2510
Truncatella pitospora, nomenclature 2510
Vitaflo 200, seed treatments, barley 1905
Vitamins, *Ascochyta rabiei* 1736
Vitavax
activity
Cyamopsis tetragonoloba 5046
wheat 2407
control
clover, diseases 2532, 2533
Crotalaria juncea, diseases 4917
Fusarium, potatoes 2613
Puccinia arachidis, groundnuts 4070
Puccinia penniseti, Pennisetum americanum 3852
Pythium 4846
Sclerotinia narcissicola, Narcissus 1067
Sclerotium rolfsii
Cicer arietinum 4078
groundnuts 495, 3370
Thanjavur wilt, coconuts 3195
Tilletia indica, wheat 1891
seed treatments
beans (*Phaseolus*) 1703, 4804
Cicer arietinum 4078
coffee 4309
faba beans 4531
Lablab purpureus 2743
Pennisetum americanum 3852
wheat 125, 2407
Vitavax 200
seed treatments
groundnuts 3706
maize 3155
Vitavax 75, seed treatments, groundnuts 3706
Vorlex
control, wood destroying fungi 3305
soil treatments 4508
Voronit C, seed treatments, wheat 36
VWR Spread No.1, surfactants 273
Walnuts
black line, viruses 1228, 1661
cherry leaf roll virus
characterization 1228
Hungary 1661
spread 1661
Diaporthe medusae, Italy 2659
Gnomonia leptostyla
infection 4019
penetration 4019
Washington
Cruciferae, *Plasmodiophora brassicae* 3311
grapevines, *Eutypa armeniacae* 1141
hops, *Pseudoperonospora humuli* 3928
lucerne, *Verticillium albo-atrum* 2026
Pseudotsuga menziesii, Phaeocryptopus gaeumannii 5007
wheat, *Gibberella zeae* 4877
Water
tobacco necrosis virus *Chenopodium* necrosis str., UK 1851
tomato bushy stunt virus, UK 1851
Watercress
chlorotic leaf spot, UK 5059
tobacco necrosis virus, UK 5059
Watermelon mosaic virus
cucumbers 2693
Cucurbitaceae 2694
differentiation 4792
marrows 3737
Mediterranean countries 4792
melons 786, 2691, 3737, 4045
serology 2694
squash 2692, 4502, 4792
strains 4792
watermelons 444, 786
Watermelons
Colletotrichum lagenarium
Brunei 3319
control 3319
testing 2697
Fusarium
enzymes 1262
fertilizers 1262
Turkey 1262
Fusarium equiseti, India 2198

Watermelons *contd.*
Fusarium oxysporum f.sp. *niveum*
fertilizers 1264
genetics 4647
inoculum 5024
Iran 4503
Israel 4647
races 4647
varietal reactions 4503, 4647, 5024
viruses
characteristics 4794
symptoms 4794
Yemen 4794
watermelon mosaic virus
China 444
control 786
particles 444
Western Australia 786
Waxes, control, diseases, cereals 2954
Waxol-0-12, control, melons, postharvest decay 790
Weeds
Alternaria, infection 5011
Alternaria crassa, hosts 923
biological control, legislation 1362
diseases, Andhra Pradesh 1766
fungi, infection, crops 3812
Gigaspora, Texas 2296
tomato spotted wilt virus, infection 3466
Verticillium albo-atrum, survival 2611
Weigelia, Cercospora weigeliae, Japan 584
West Africa, yams, cucumber mosaic virus 4091
West Bengal
Cercospora 915, 916, 917
hyphomycetes 915, 916, 917
West Virginia, *Fagus, Nectria galligena* 763
Western Australia
Anigozanthos, Alternaria alternata 221
avocados, *Phytophthora cinnamomi* 1583
barley, *Pyrenophora teres* 162
clover
Kabatiella caulivora 251
subterranean clover mottle virus 2531
Dryandra sessilis, Phytophthora cinnamomi 4997
Eucalyptus, Phytophthora cinnamomi 4997
lupins, diseases 2537
melons, watermelon mosaic virus 786
watermelons, watermelon mosaic virus 786
Wheat
Agropyron mosaic virus
crop loss, sources 1433
inhibitors 4923
UK, sources 1433
Alternaria, control 2978
Alternaria triticina, varietal reactions 1450
Aspergillus
aflatoxins 1428
control 126
incidence 1428
Bacillus megaterium pv. *cerealis,* symptoms 1451
barley stripe mosaic virus, detection 2378
barley yellow dwarf virus
aerial photography 4237
breeding 121
crop loss 1432
epidemiology 1432, 4237
interactions 1872
sowing dates 121
tolerance 120, 121
UK 4237
Victoria 1432
yield losses 4237
Botrytis cinerea, host parasite relationships 3496
carbendazim, activity 1434
Cladosporium
interactions 1872
UK 4237
Cochliobolus sativus
amoebae 4229
cultivation 2411
cytokinins 117
environmental factors 954
epidemiology 2960
genetics 4869
Wheat *contd.*
Cochliobolus sativus contd.
herbicides 2411
infection 2390, 4226
pathology 2386
rotations 1446
Saskatchewan 921, 4869
USSR 954, 1446
varietal reactions 2386
cocksfoot mild mosaic virus, varietal reactions 613
Corynebacterium, taxonomy 18
diseases
breeding 119
China 2259
control 1878, 1879, 2392, 2954, 3480, 4654, 4870
cultivation 2392
environmental factors 3477
fertilizers 2392
forecasting 2391
genetics 2381
Ireland 3478
Netherlands 2391
resistance, sources 4659
reviews 119
simulation 2391
Switzerland, varietal reactions 620
UK 1878, 4654
Uruguay 2962
varietal reactions 118, 616, 4870
empty spikes
control 985
Ukrainian SSR 985
Erysiphe graminis
control 990, 1443
environmental factors 984
fungicide tolerance 4251
genetics 627, 2408, 4251, 4656, 4658, 4661, 4662
India 4241
integrated control 999
interactions 619
mutations 627
Poland 2409
polypeptides 1444
races 2409
resistance 1892, 4097
USSR 999
varietal reactions 140, 1892, 2971, 4241, 4251, 4661, 4662
fungi
antagonism 2958
Colorado 4872
control 4651
endophytes 4657
environmental factors 4651
infection 3481
interactions 4651
phyllosphere, activity 3822
seed germination 2959
soil fungistasis 4239, 4240
Wyoming 4872
Fusarium
Bulgaria 4643
China 2385
control 2978
environmental factors 1448
Hungary 1448
interactions 619
lignocellulose, degradation 3782
soil water potential 987
zearalenone 4225, 4653
Fusarium crookwellense, geographical distribution 1831
Fusarium culmorum
environmental factors 2388
spore germination 4256
Fusarium nivale 615
breeding 615
incidence 2979
seed 2979
UK 2979
Fusarium roseum, control 3823
Gaeumannomyces graminis
aerial photography 4200
antagonists 1896
control 1894, 3492, 3829
cultures 143
environmental factors 1896, 3490
enzymes 632
epidemiology 2960
induced resistance 3491
Wheat *contd.*
Gaeumannomyces graminis contd.
infection 632
mineral nutrition 4255
rotations 2412
soil water potential 987
testing 2868
USA 142
virulence 142
Gaeumannomyces graminis var. *tritici,* soil fungistasis 4239, 4240
Gibberella saubinetii
China 147, 4871, 4878
forecasting 4871, 4878
varietal reactions 147
Gibberella zeae
China 2415
control 4666
irrigation 4877
Korea Republic 146
spore dispersal 146
virulence 2415
Washington 4877
Glomus fasciculatum, mycorrhizas, water relations 1816
Glomus mosseae
mycorrhizas
host parasite relationships 2298
water relations 1816
Helminthosporium, control 2978
Hymenula cerealis
frost injury 1449
Japan 1898
Leptosphaeria nodorum
aggression 3487
Belgium 4253
breeding 3489
control 614
disease models 2377
environmental factors 4254
genetics 630, 631, 4665
host parasite relationships 980
infection 2410
interactions 2972
Italy 1893
mixtures 2957
pathogenicity 1873, 2384, 4231
spread 2957
symptoms 2974
testing 980, 4665
toxins 980
varietal reactions 629, 2974, 4231, 4663, 4665
yield losses 4253
mineral deficiencies, molybdenum 4236
mycorrhizas
environmental factors 2301
phosphorus 562
water relations 2303
weeds 2301
Mycosphaerella graminicola
breeding 628
control 141, 618, 4228
genetics 628, 4664
inoculation 4252
Iran 2973
varietal reactions 2971, 4231
ozone, yield losses 4105
Penicillium, control 126
Phialophora, cultures 143
Phoma americana, USA 2389
Pseudocercosporella herpotrichoides
anatomy 2976
control 633
crop loss 144
diagnosis 3830
environmental factors 4230
forecasting 2359
genetics 3494
infection 3495
inoculation 144
isolation 2977
pathogenicity 4232
resistance 2976
respiration 3495
sampling 2413
spore dispersal 3493
spores 2413
varietal reactions 2976, 3495, 4232
yield losses 979
Pseudomonas syringae pv. *atrofaciens*
Bulgaria 634
Italy 3831

Wheat *contd.*
Pseudomonas syringae pv. *atrofaciens contd.*
symptoms 634
Pseudomonas syringae pv. *syringae,* symptoms 1451
Puccinia
Cyprus 115
environmental factors 4242
genetics 4656
India 4241
infection 4243
Italy 4242, 4243
Manipur 2395
races 2395
resistance 2394
Switzerland 4244
varietal reactions 4241, 4242
Puccinia graminis
Africa 4245
Australia 3479, 4245
breeding 3824
Canada 983
Chile 2965
control 128, 134, 4246
Czechoslovakia 1438
disease models 3479
epidemiology 4874
estimation 4874
genetics 129, 132, 991, 992, 1884, 2398, 2399, 2963, 3824, 3825
haustoria 133
hypersensitivity 4873
India 130
Italy 1883
lignification 4873
Mexico 991, 1881
New South Wales 845
physiologic races 1438
pigments 621
polypeptides 2396
races 130, 983, 1881, 1882, 1883, 3483
resistance 129
sowing dates 2965
spore dispersal 4245
spore germination 131
Sudan 4246
testing 2964
ultrastructure 131
USA 1881, 3483
varietal reactions 134, 1438, 1882, 1884, 2397, 2963, 2964, 2971, 3825, 4246
virulence 3479, 3483
yield losses 2965
Puccinia hordei
histopathology 1874, 1875
resistance 1874, 1875
Puccinia melanocephala, penetration 4760
Puccinia recondita
breeding 2967
Bulgaria 622, 1886, 4660
Byelorrusian SSR 1885
Canada 998
China 2403
competitive ability 1440
control 128, 614, 618, 993, 1888, 3826
Czechoslovakia 136
detection 997
environmental factors 104, 2966, 3484
genetics 995, 998, 1885, 1886, 2400, 2401, 2402, 2405, 2967, 4247, 4249, 4658, 4660
histopathology 1874
infection types 3412
Iraq 994
Italy 1887
microscopy 4201
New South Wales 845
North Dakota 1439
Poland 2404
races 622, 1887, 2403, 2404, 4660
resistance 1874, 4248
reviews 135
sporulation 3484
testing 2402
USSR 104, 996, 1440
varietal reactions 623, 993, 994, 995, 996, 2393, 2405, 2971
virulence 2404
Puccinia striiformis
Australia 4875

Wheat *contd.*
Puccinia striiformis contd.
breeding 4250
Chile 2968
China 138, 3827
control 138, 4875
disease models 3827
forecasting 1889
genetics 4250
New Zealand 848, 1890
Norway 116
pathogenicity 4250
races 2968
spread 1890
USA 1889
varietal reactions 137, 2393, 2971
Pyrenophora tritici-repentis
epidemiology 1447
yield losses 2975
yield losses 1447
reviews 615
Rhizoctonia cerealis
characteristics 1897
control 3497
estimation 145
Ohio 1897
varietal reactions 3498, 4234
root rots
ammonia 4238
Brazil 1445
control 988, 989, 3823, 4238
soil conditions 1445
Ukrainian SSR 988
USSR 2961, 4238
varietal reactions 2961
Sclerotinia borealis 615
breeding 615
seed treatments 36, 125, 2955
activity 2407
laboratory tests 3821
seedborne fungi
control 1436, 3818
infection 127
Septoria
reviews 3488
Romania 3488
snow mould, Japan 2382
Sporobolomyces roseus, fertilizers 2414
storage decay
control 1435
India 1435
Tilletia
control 990
genetics 2406
races 2406
varietal reactions 139
Tilletia caries
control 3485
reviews 625
Tilletia controversa
control 624, 2969, 2970
economics of control 626
legislation 626
reviews 625, 626
Tilletia foetida, reviews 625
Tilletia indica
control 1891
epidemiology 3486
India 3828
spores 3828
Typhula 615
breeding 615
Uredinales, management 1880
Ustilaginales, breeding 2383
Ustilago nuda
control 125
infection 1442
races 4876
South Australia 4876
Verticillium, interactions 1872
wheat dwarf virus, characteristics 1431
wheat soilborne mosaic virus
breeding 1430
genetics 1430
transmission 932
wheat spindle streak mosaic virus, Nebraska 124
wheat streak mosaic virus
Montana 123
proteins 2952
strains 123
wheat yellow dwarf virus
China 4655

Wheat *contd.*
wheat yellow dwarf virus *contd.*
forecasting 4655
yellow berry, fertilizers 148
Wheat dwarf virus, wheat 985, 1431
Wheat mosaic virus, wheat 985
Wheat rosette stunt virus, hosts 122
Wheat soilborne mosaic virus
rye 3476
wheat 118, 932, 1430
Wheat spindle streak mosaic virus, wheat 124
Wheat straw, *Fusarium,* lignocellulose, degradation 3782
Wheat streak mosaic virus
Hordeum murinum 1084
wheat 123, 2952
Wheat yellow dwarf virus, wheat 4655
Whiteflies, transmission, bean distortion dwarf virus 3691
Wild plants, fungi, infection, crops 3812
Wilt Pruf
control
Erysiphe graminis, barley 4228
Mycosphaerella graminicola, wheat 4228
Wojnowicia graminis, wheat 4238
Wood destroying fungi
cellulose, degradation 1248
cultures 2175
laboratory tests 2851
ornamentals 4001
Woronina, plant pathogens 4620
Wrightia tinctoria, *Cercospora wrightia,* mycotoxins 2169
Wyoming
Agropyron, mycorrhizas 2294
Bouteloua, mycorrhizas 2294
lucerne
Phytophthora megasperma f.sp. *medicaginis* 3091
Verticillium albo-atrum 695
wheat, fungi 4872
Xanthium pensylvanicum, *Sclerotinia,* Maryland 5066
Xanthium pungens, *Alternaria helianthi,* hosts 3935
Xanthium spinosum, *Alternaria helianthi,* hosts 3935
Xanthomonas
caraway 3187
freezing 1783
fruit 3094
physiology 2274
Xanthomonas albilineans, sugarcane 1192, 1193, 2131, 3958, 3972, 3973
Xanthomonas campestris
cauliflowers 4499
genetics 4126
laboratory tests, indoles 1792
polysaccharides 25
Zizania aquatica 4286
Xanthomonas campestris* pv. *arrhenatheri, grasses 241
Xanthomonas campestris* pv. *campestris
cabbages 4125
cucumbers 4049
membranes 2193
proteins 4127
soil 4125
turnips 4126
Xanthomonas campestris* pv. *cassavae, cassava 1760, 1761
Xanthomonas campestris* pv. *cerealis
hosts 646
rye 646
Xanthomonas campestris* pv. *citri
citrus 672, 1045, 1976, 1977, 3526, 3527, 3867
lime (citrus) 673
oranges 1046
Xanthomonas campestris* pv. *cucurbitae, cucumbers 792
Xanthomonas campestris* pv. *graminis, grasses 241, 690
Xanthomonas campestris* pv. *heteroceae, buckwheat 4645
Xanthomonas campestris* pv. *hyacinthi
CMI distribution maps 950
hyacinths 2009, 3057
Xanthomonas campestris* pv. *malvacearum
cotton 215, 679, 1055, 1056, 1057, 1522, 1523, 1993, 1994, 2501, 3882

***Xanthomonas campestris* pv. *malvacearum* contd.**
enzymes 2786
lipids 2787
***Xanthomonas campestris* pv. *mangiferaeindicae*,** mangoes 722
***Xanthomonas campestris* pv. *manihotis*,** cassava 1761, 3397, 4577
***Xanthomonas campestris* pv. *nigromaculans*,** cucumbers 4049
Xanthomonas campestris* pv. *oryzae
bacteriophages 2485
counting 1964
rice 7, 663, 1039, 1040, 1041, 1509, 1510, 1511, 1512, 1962, 1963, 1965, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 3006, 3034, 3035, 3036, 3037, 3525, 3861, 4298, 4299, 4689, 4690, 4907
tobacco 4770
***Xanthomonas campestris* pv. *oryzicola*,** rice 3006
Xanthomonas campestris* pv. *pelargonii*, *Pelargonium 1070
Xanthomonas campestris* pv. *phaseoli
beans (*Phaseolus*) 1269, 1280, 1704, 2756, 3696, 3697, 3698, 4054, 4529
cucumbers 4049
preservation 3696
Vigna mungo 2228
Vigna radiata 5047
***Xanthomonas campestris* pv. *phlei*,** grasses 241
***Xanthomonas campestris* pv. *poae*,** grasses 241
***Xanthomonas campestris* pv. *vasculorum*,** sugarcane 1192, 3405
Xanthomonas campestris* pv. *vesicatoria
Capsicum 963, 1322, 1678, 1752, 1753, 2246, 2266, 4572, 4573, 5061
tomatoes 1793, 2156, 3998, 4445, 4447
Xanthomonas campestris* pv. *vignaeunguiculatae
beans (*Phaseolus*) 1728
cowpeas 1728, 2222
Xanthomonas campestris* pv. *vignicola
beans (*Phaseolus*) 1728
cowpeas 1728
Xanthomonas campestris* pv. *zinniae*, *Zinnia 2021
***Xanthomonas campestris* pv. *vesicatoria*,** *Capsicum* 832
***Xanthosoma sagittifolium*,** root rots, Nigeria 3399
***Xiphinema*,** transmission, tomato ringspot virus 3554
Xiphinema americanum
epidemiology, tomato ringspot virus 260
transmission
peach rosette mosaic virus 4386
tobacco ringspot virus 276, 3103
tomato ringspot virus 276
***Xiphinema diversicaudatum*,** transmission, *Arabis* mosaic virus 3072
***Xiphinema rivesi*,** epidemiology, tomato ringspot virus 260
***Xylohypha nigrescens*,** date palms 2078
Yam mosaic virus, yams 3401
Yams
Botryodiplodia theobromae
enzymes 3402
life cycle 3731
Cercospora contraria, control 3732
cucumber mosaic virus, West Africa 4091
Didymosphaeria donacina, control 3732
fungi, Guadeloupe 4092
Pythium sylvaticum
Japan 527
storage decay 527
Uredinales
Oceania 2250
South East Asia 2250
viruses
Caribbean 4089
Guadeloupe 4090
Ivory Coast 4091
yam mosaic virus
purification 3401
symptoms 3401
Yeasts, barley 3833
Yemen, watermelons, viruses 4794
Yugoslavia
elms, *Ceratocystis ulmi* 4459
grapevines, *Botrytis cinerea* 312
Yukon, rye, *Coprinus psychromorbidus* 4670
Zambia
maize, seedborne fungi 171
pigeon peas, diseases 2738
***Zea diploperennis*, *Peronosclerospora sorghi*,** Thailand 4220
Zea mays (see Maize)
Zearalenone
Fusarium 4225, 4653
Fusarium equiseti 4225
Gibberella zeae 4225
Zelkova serrata
Ceratocystis ulmi
California 3662
resistance 3662
***Zepharanthes rosea*, *Pseudocercospora indica*,** India 912
Zimbabwe
cowpeas, diseases 3709
Eucalyptus grandis, root rots 2362
potatoes, purple top wilt 2362
tobacco, diseases 3220
Zinc
control
grapevines, diseases 2058
Piper nigrum, black berry 1145
Pseudomonas syringae pv. *tomato*, tomatoes 3996
deficiencies, beans (*Phaseolus*) 4057
foliar uptake 876
Zinc dimethyl dithiocarbamate
control, *Setosphaeria rostrata*, tomatoes 2153
laboratory tests, *Setosphaeria rostrata* 2153
Zinc sulphate
control
oranges, chlorosis 3868
Plasmodiophora brassicae, cabbages 1253
Pseudomonas syringae pv. *syringae*, apricots 2554
Pseudomonas syringae pv. *tomato*, tomatoes 4446
zinc, deficiencies, beans (*Phaseolus*) 4057
soil treatments 1988
Zincofol, control, *Septoria chrysanthemella*, *Chrysanthemum* 4324
Zincop, activity, fungi, mustard 2688
Zineb
activity, rhizosphere fungi 817
control
Alternaria ricini, *Ricinus communis* 2578
apricots, diseases 1112
Botrytis cinerea, grapevines 315
Cicer, storage decay 5045
Peronospora destructor, onions 3723
Peronospora sparsa, roses 1073
persimmons, fungi 1131
Phytophthora infestans
potatoes 1175
tomatoes 1213
Polystigma rubrum, plums 3125
Pythium ultimum, cucumbers 3326
Septoria lycopersici, tomatoes 1210
tomatoes, diseases 610
foliar uptake 876
fungicide tolerance, *Elsinoë ampelina* 1350
laboratory tests 28
Capnodium citri 669
phytotoxicity, sesame 3609
residues
apples 1093
crops 874, 3419
maize 1009
pears 1093
seed treatments
sesame 3609
sorghum 1919
soil treatments 1253
translocation, maize 1009
Zingiber officinalis (see Ginger)
Zinnia
Erysiphe cichoracearum, breeding 2020
***Zinnia* contd.**
Erysiphe cichoracearum var. *transvaalensis*, taxonomy, South Africa 4861
Glomerella cingulata
control 237
India 237
Spiroplasma citri, Arizona 102
Xanthomonas campestris pv. *zinniae*
Japan 2021
symptoms 2021
***Zinnia elegans*,** cucumber mosaic virus, Japan 4640
Ziram
control
apricots, diseases 1112
onions, diseases 4084
Peronospora sparsa, roses 1073
Phytophthora nicotianae var. *nicotianae*, *Elettaria cardamomum* 3930
laboratory tests 28
Curvularia eragrostidis 3917
residues, crops 3419
Ziride, control, onions, diseases 4084
Zizania aquatica
bacterial diseases
Minnesota 4286
pathogenicity 4286
symptoms 4286
Cochliobolus miyabeanus
control 652
fungicide tolerance 4900
Cochliobolus sativus
control 652
fungicide tolerance 4900
Drechslera gigantea
hosts 249
Minnesota 249
varietal reactions 249
Zizania latifolia
Ustilago esculenta
electron microscopy 2249
legislation 526
utilization 526
Ziziphus jujuba
Botryodiplodia theobromae, India 3153
mosaic virus
China 288
particles 288
Ziziphus mauritiana
Cladosporium zizyphi, physiology 1588
diseases, Haryana 2057
***Zizyphus*, *Erysiphe acaciae*,** India 4626
Zoospores
biology 4620
morphology 4620
***Zornia*,** diseases, Colombia 2521
Zucchini yellow mosaic virus, Cucurbitaceae 5023